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New Jersey NEDS (National Emission Data System). Point Source. Emission Inventory

Engineering-Science, Inc, McLean, Va

Prepared for

Environmental Protection Agency, New York Region II

Sep 77

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EPA 902/4-77-008

IMPROVEMENT OF NEW JERSEY NEDS EMISSION INVENTORY

SEPTEMBER 1977

FINAL REPORT

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16. ABSTRACT

This report discusses various upgrades to the New Jersey NEDS which Engineering Science conducted under several task orders. In the first three task orders, ES was directed to identify specific data elements that were missing from the NEDS file and which could not be found in the state's file. However, when such data was available, upgrades were to be made to NEDS. Three additional tasks were subsequently conducted with the intent of updating the New Jersey NEDS file to a level suitable for immediate use in modeling efforts associated with SIP development.

In order to accomplish this task within the time constraints, ES and EPA established priorities for the types of data required. Information was collected for only those sources existing in the NEDS file at that time.

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NEW JERSEY NEDS

POINT SOURCE
EMISSION INVENTORY

Submitted to

U. S. ENVIRONMENTAL PROTECTION AGENCY
Region II
Air Programs Branch and Air Facilities Branch
New York, New York 10007

Prepared by

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CHAPTER I

INTRODUCTION

The State of New Jersey is one of the most industrialized areas in the country and contains a substantial number of air pollution emission sources. Over the last four years six separate contracts were issued to Engineering-Science (ES) by the U. S. Environmental Protection Agency (EPA), Region II, to make various types of data upgrades to portions of the New Jersey point source emission inventory. The new data was added to the EPA National Emission Data System (NEDS). Other contractors were also retained by EPA to perform upgrades to specific counties in the state.

The following is a brief description of the six contracts performed by ES:

CONTRACT	STARTING DATE	SYNOPSIS
68-02-1380 T. O. #6	5/74	Review of 100 facilities (plants) and partial upgrade of NEDS from data in the state permit files. Identification of missing data for these facilities.
68-02-1380 T. O. #8	2/75	Review of 150 facilities and partial upgrade of NEDS from data in state permit files. Identification of missing data for these facilities.
68-01-3137 T.O. #7	1/76	Inclusion of 7,000 NEDS cards into the N. J. NEDS. These were made available to ES by the Regional Office from previous contracts.
68-02-1380 T. O. #11	3/76	Inclusion of 14,000 NEDS cards and data on coded forms for 76 facilities into the inventory. Generation of missing data for 700 facilities.
68-02-1380 T. O. #18	5/76	Coding of 387 Clean Air Act Section 114 responses and inclusion of the data in the inventory.
WC-7-0205-A	12/76	Coding of 24 late responses and completion of update of 39 incomplete responses from the previous contract.

Initially the data was collected specifically for Region II's Air Facilities Branch; however, the later efforts were conducted for the Office of Air Programs Branch. In the first three task orders, ES was directed to upgrade the existing NEDS with information found in the New Jersey State office files, and identify, where possible, missing sources (sources which should normally be present at certain types of facilities but which were obviously absent from the NEDS and in some instances from the state files). In addition, ES was also requested to identify specific data elements missing from the NEDS file and that were not available in the state file. The intent was for ES to conduct a "first cut" of identifying facilities, sources, or specific elements missing from the NEDS inventory which the Air Facility Branch needed in order to carry out its enforcement program. The NEDS file was to be completed later with information collected through subsequent plant visits and/or Section 114 letters originating from that Branch.

The remaining three ES contracts were conducted with the intent of sufficiently updating the New Jersey NEDS file for immediate use in modeling efforts associated with SIP development. In order to accomplish this task within the time constraints, ES and EPA established priorities for the types of data required. Information was collected for only those sources existing in the NEDS file at that time. The data was gathered through Section 114 letters and available technical publications.

This report summarizes the work done in all of the activity areas outlined above for the last three efforts which resulted in the 1976 New Jersey point source emission inventory.

For the last three contracts listed above, ES was requested to obtain, format, and incorporate into the NEDS, missing data for approximately 700 facilities in the 1975 inventory. Our work in these last efforts consisted of:

- Identification of commonly occurring blank data fields.
- Preparation of Clean Air Act Section 114 letter questionnaires for those facilities with emission sources in the file that were missing significant data such as operating throughput, emissions, and stack characterization.

- Synthesizing, whenever possible, missing source data using reference documents.
- Obtaining Universal Transverse Mercator (UTM) coordinates.
- Performance of follow-up calls to facilities which submitted incomplete Clean Air Act Section 113 and 114 responses.
- Formatting all the data obtained, using a data processing system compatible with the EPA National Emission Data System.
- Incorporation into the 1975 New Jersey point source emission inventory of all data obtained through this effort in addition to a series of transactions made available by Region II from previous efforts.

ES used established EPA methodologies and procedures in the completion of this project. The reference material included:

- Guide for Compiling a Comprehensive Emission Inventory, APTD-1135.
- National Air Data Branch (NADB) Emission Data System Training Manual.
- Compilation of Air Pollutant Emission Factors, AP-42.

Two hard copies of the inventory in Emission Inventory Subsystem/Permits and Registration format (a NEDS compatible system), and a NEDS card image tape have been forwarded to the Project Officer. The following chapters describe the background, methodology used, the current status of the inventory, and a summary of recommendations. A list of references and the appendices are included in this report.

CHAPTER II
BACKGROUND

The New Jersey point source emission inventory, prior to ES involvement in 1974, consisted of 444 facilities and 2,010 emission points, representing 2,456 processes with a 1970-71 year of record. The following discussion describes the work performed by ES on the three initial contracts, which resulted in the data base for subsequent efforts.

CONTRACT 68-02-1380 T. O. #6 and T. O. #8

ES was retained by Region II to review and partially upgrade 100 facilities in the emission inventory during the latter part of 1974, and 150 facilities early in 1975. The work consisted of an upgrade of NEDS using data that were available in the files of the New Jersey State Department of Environmental Protection. Initially, the permit files at the New Jersey Central Field Office were used to upgrade the inventory for facilities located in various central New Jersey counties. The work performed by ES in these counties is summarized in Table II-1. Later, at the request of the project officer, the work was redirected with emphasis placed on the northern counties. Consequently the effort was carried out from the Springfield Office. Other contractors were requested to perform similar work in the southern counties. The work performed in the northern counties is summarized in Table II-2. The two deliverable items for this effort were:

- NEDS coding forms for the facilities upgraded.
- "Missing Data" forms - developed by ES specifically for this contract.

The Missing Data forms, illustrated in Figure II-1, identified information not available in the state files. In addition, it identified missing possible emission sources which would generally be found at certain facilities. The work under these efforts was completed in mid-1975 at which time ES had reviewed a total of 465 facilities. Additional information is presented in Appendices A and B. Appendix B-1 contains facilities upgraded under the Contract 68-02-1380 (T. O. No. 18). Appendix B-2 contains facilities that could not be coded due to insufficient data or because the files were not available.

TABLE II-1

FACILITIES IN CENTRAL AND SOUTHERN NEW JERSEY CODED BY ES

(CONTRACT 68-02-1380 T.O. 6)

County Name	SAROAD Code	Total Facilities
Atlantic	0080	11
Burlington	0660	9
Cape May	0780	6
Cumberland	1050	25
Gloucester	1760	3
Hunterdon	2260	2
Mercer	2980	6
Monmouth	3180	5
Morris	3260	14
Ocean	3900	14
Salem	4900	1
Somerset	5020	9
Sussex	5300	4
Warren	5660	4
	Sub-Total	113

TABLE II-2

FACILITIES IN NORTHERN NEW JERSEY CODED BY ES

(CONTRACT 68-02-1380 T.O. 8)

County Name	SAROAD Code	Total Facilities
Bergen	0300	37
Camden	0740	0
Essex	1380	65
Hudson	2240	57
Middlesex	3060	87
Passaic	4120	58
Union	5440	49
	Sub-Total	353

MISSING NEDS DATA

PLANT ID _____ COUNTY _____

PLANT NAME _____

PLANT ADDRESS _____

INITIALS _____

DATE _____

NEDS Point No.	State Stack No.	Process Description	Process SCC	Missing NEDS Data	Comment

FIGURE II-1

CONTRACT 68-01-3137 T. O. #7

Early in 1976, and as a result of EPA internal data processing problems and delays, ES was retained to consolidate the data generated under previous efforts with the existing New Jersey NEDS file. In addition, ES was to include the work generated by other contractors and the EPA Regional Office during 1974 and 1975. The data, totaling approximately 7,000 NEDS transactions, were made available to ES on computer cards. These transactions were incorporated into the existing NEDS file using the EPA Emission Inventory Subsystem/Permits and Registrations (EIS/P&R). ES used the OSI computer facility at Rockville, Maryland. This effort was completed during the spring of 1976 and resulted in an interim 1975 New Jersey point source emission inventory. The final project report is presented in Appendix C.

A review of the inventory by EPA and ES engineers revealed that the transactions processed did not include all the work done by ES and other contractors under the initial effort. The missing transactions, totaling approximately 14,000 computer cards, were located in the EPA regional office files.

WORK REQUIRED

In the spring of 1976, two major problems were identified in the 1975 interim New Jersey point source emission inventory. These were:

- Approximately 14,000 transactions, representative, on the average, of 2,000 points, were not in the file.
- The Regional Office had not obtained all of the missing information identified by ES on the Missing Data Forms.

As a result, ES was retained under Contracts 68-02-1380 T. O. #11 and #18 and WC-7-0205-A (work summarized in this report) to:

- Update the 1975 point source inventory by incorporating the 14,000 transactions (not previously keypunched) as well as the data on NEDS forms for 76 facilities into the existing EIS/PNR file.
- Obtain, format, and incorporate missing data for 700 sources in the 1975 inventory.

CHAPTER III

METHODOLOGY

The most recent update to the New Jersey point source emission inventory, (Contracts 68-02-1380 T. O. Nos. 11 and 18, and WC-7-0205-A), involved the gathering, formating, and processing of missing data items for sources in the 1975 version of the inventory. This chapter summarizes the work performed by ES in these three activity areas. Established EPA methodologies and procedures were used throughout the project. Of paramount importance in completing the work were the referenced documents used to establish typical values for some of the missing data elements.

IDENTIFICATION OF MISSING DATA

At the initiation of the project, ES made a cursory evaluation of the 1975 inventory and found that essential modeling and enforcement data for a substantial number of facilities were missing. As indicated earlier the Regional Office had not obtained all of the missing data and where the data was available it had not been keypunched and incorporated into the NEDS file. In order to select an expeditious method for securing the various types of missing data elements, the missing information was classified as critical or noncritical. Critical data elements refer to the information which was required to conduct air quality dispersion analyses. These data elements were obtained through Section 114 of the Clean Air Act. Noncritical data refers to information that was not required for dispersion modeling but which was needed to upgrade the NEDS file. The noncritical data were obtained from the reference documents. This effort did not include the addition of new sources.

The following data elements were identified as critical items:

- Process throughput
- Control equipment efficiency
- Stack parameters
- Fuel characterization

Sources emitting 50 tons or more per year of any criteria pollutant and missing any one of these data items, were primary candidates for a Section 114 letter questionnaire. Sources with actual emissions of less than 50 tons per year of any criteria pollutant and missing the process throughput qualified for a letter questionnaire, if this data element could not be obtained from the maximum hourly rate or by using published emission factors. Sources missing pollutant emission rates and related to a complex industrial process for which emission factors did not exist were also sent a questionnaire.

The term noncritical data identified fields, such as seasonal operating schedule, standard industrial classification (SIC) codes, UTM coordinates, allowable emissions, and all of the remaining fields found in the standard NEDS load sheet that were not identified as critical data elements.

LETTER QUESTIONNAIRES

The need for letter questionnaires under Section 114 of the Clean Air Act had been quantified as a result of the review described above. A sample of the questionnaire package is presented in Appendix D. For facilities where a dearth of information existed, an OMB Form 158-R75, "EPA Air Pollutant Emission Report", was sent. For sources missing only a few data elements, a short individualized form developed by ES was used. The short form, illustrated in Figure III-1, was designed to expedite the identification of missing data, questionnaire response time, and data coding and processing. A team of four engineers reviewed all of the 4900 emission points (about 850 facilities) in the 1975 inventory. This resulted in the identification of missing critical data, plant contact and address. These questionnaire forms were channeled to a staff for clarification of incomplete addresses and preparation of cover letters and other questionnaire enclosures. The references used for locating incomplete mailing addresses were:

- 1975 New Jersey Industrial Directory
- New Jersey Phone Directory
- EPA Compliance Data

FIGURE III-1

QUESTIONNAIRE

FACILITY NAME:_____

SOURCE DESCRIPTION:

PROCESS UNIT(S)_____

☐ STACK PARAMETERS

Height_____ft.

Flow_____acfm

Inside Diam._____ft.

Processes with Common Stack_____

☐ CONTROL EQUIPMENT

Type	Efficiency
_____	_____%
_____	_____%
_____	_____%

☐ OPERATING SCHEDULE

_____Hours/Day _____Days/Week _____Weeks/Year

☐ POLLUTANT EMISSIONS (Tons/Year)

PT_____ NO_x_____ HC_____

SO_2_____ CO_____

METHOD OF ESTIMATION

PT_____ NO_x_____ HC_____

SO_2_____ CO_____

☐ FUEL USAGE

Type	Rates(1) Annual	Rates(1) Hourly	%S	%A	Heating Value(2)

space heating_____%

☐ PROCESS OPERATING THROUGHPUT

Annual	Units(1)	Hourly	Units(1)
_____		_____	
_____		_____	

☐ PLANT LOCATION_____

(1) Tons; 1,000 gallons; 1,000 cubic feet (2) BTU/ton; BTU/gallon; BTU/1,000 cu. feet

code:_____(office use only)

ES/76

INSTRUCTIONS

SOURCE DESCRIPTION

This form should be completed only for the specific process/boiler which has been identified.

STACK PARAMETERS

Height - Elevation at point of discharge above ground

Flow - Discharge flow rate in acfm (actual cubic feet per minute)

Inside Diameter - At point of discharge

Processes with Common Stacks - Indicate other processes or combustion units which also exhaust through this stack.

CONTROL EQUIPMENT

Type - Brief description of control equipment, such as: baghouse; electrostatic precipitator; cyclone; etc.

Efficiency - Overall collection efficiency of control system(s).

OPERATING SCHEDULE

Submit the operating schedule for 1975. For batch or intermittent processes, indicate average number of hours per week of operation and weeks per year.

POLLUTANT EMISSIONS

Indicate by pollutant the emissions in tons per year. For pollutants which do not apply to this process indicate "NA".

Method of Estimation - indicate method used to determine the emissions (stack test, emission factor, engineering knowledge, material balance, guess)

PROCESS OPERATING THROUGHPUT

The process annual and hourly maximum design rates should represent 1975 operating conditions. Enter the units applicable, such as tons, gallons or million cubic feet.

FUEL USAGE

Type - Identify type of fuel (distillate, residual, bituminous, anthracite, natural gas, etc.)

Process gas used as auxiliary fuel should also be noted.

Annual and Hourly Operating Rates - This should represent the annual and hourly maximum fuel usage rates during calendar year 1975.

%S - Sulfur content of fuel.

%A - Ash content of fuel.

Heating Value - Heat content of fuel(s) used.

Space Heating - Percent of the heat generated which is used for space heating.

PLANT LOCATION

Indicate exact plant location giving the distance from nearest intersection, e.g., located on Rt. 123, 2-1/2 miles west of intersection if I-95 and Rt. 1.

A total of 387 letters were sent via certified mail by ES under EPA letterhead and signature. A list of these facilities is presented in Appendix E. During the latter part of May and in the early part of June, ES engineers answered an average of 30 calls per day from facilities receiving the questionnaires.

There were 37 questionnaires returned to ES incomplete and 54 facilities which did not respond to the letter request. As requested by the project officer, ES made follow-up calls during the early part of 1977 to all the facilities with incomplete responses in order to obtain additional information and finalize their updates. Also, at that time, 22 of the pending responses were received and coded by ES.

OTHER DATA

ES used the documents listed in the reference section of this report to generate missing noncritical data for all of the emission sources in the 1975 inventory for which a letter request was not initiated. The project officer concurred with ES that this would be an expeditious and reasonably accurate procedure to generate the data. Forms similar to the one appearing in Figure III-2 were used to document the data obtained using this methodology. The following brief discussion summarizes common procedures used.

- Stack Parameters - The NTIS publication, "Exhaust Gases from Combustion and Industrial Processes", was used to determine missing stack parameters. The publication summarizes typical stack parameters and includes equations to determine exhaust flow rates based on process throughput for a variety of industrial processes.
- Throughputs - Maximum hourly process throughputs were determined from the yearly throughput data assuming 90 percent normal operation and vice versa.
- UTM Coordinates - UTM coordinates were obtained from county and U.S. Geological Survey Maps. Approximately 450 coordinates were obtained.

DOCUMENTATION FORM

COUNTY_____ PLANT I.D._____ INITIALS_____

NAME_____ DATE:_____

NEDS Point No.	Data Field	Reference

The questionnaires were used to request, as needed, additional information on plant locations. In some isolated instances and due to the lack of adequate location description, a few small sources were assigned coordinates corresponding to the centroid of the township where the facility was located. These cases were identified in the documentation forms. All sources within a facility were assigned the same set of coordinates.

- Allowable Emissions - These were determined in accordance with the regulations published by the New Jersey Department of Environmental Protection. The following two codes were used in the allowable field to identify maximum allowable sulfur content for combustion sources:

Code	Representing
'22222'	- Distillate oil sulfur content of 0.2% by weight. - Anthracite and Bituminous coal sulfur content of 0.2% by weight (dry basis).
'33333'	- Residual oil sulfur content of 0.3% by weight.

Most of the data in the inventory were for 1974-1975 operating conditions, thus the regulations used to determine allowable emissions were those in effect at the time. No hydrocarbon regulations were in effect at the time.

- Compliance Status - Compliance status was determined only for those facilities in the inventory which had that data field blank. A list has been made available to EPA under separate cover with the compliance status for all the sources in the inventory. The list was generated by comparing actual and allowable emissions. Whenever possible, the compliance status appearing in the CDS file was used. The status of compliance data information was not incorporated into the inventory for the following reasons:

- The compliance status would not be indicative of 1976-77 conditions but rather representative of historical conditions.
- Allowable emission, determined from synthesized parameters such as exhaust flow rate, should not be used to assess compliance status.

o Miscellaneous Fields

- IPP Process Code - The code '99' was used to identify processes for which an IPP process identification code has not been defined.
- Storage Tank Capacity - Tank capacity was entered in the annual process rate field for SCC codes related to breathing losses from petroleum product storage.

COMPLIANCE ORDERS

The EPA issued orders under Section 113 of the Clean Air Act to all the facilities that did not respond to the questionnaire. A total of 92 orders were prepared and sent by EPA Retion II. A list of the recipients is presented in Appendix F.

DATA PROCESSING

The data collected and developed by ES was formatted and incorporated into the 1975 inventory using the Emission Inventory Subsystem/Permits and Registrations (EIS/P&R), which is compatible with NEDS. Figures III-3 through III-5 illustrate the types of load sheets used to code the data for subsequent computer processing.

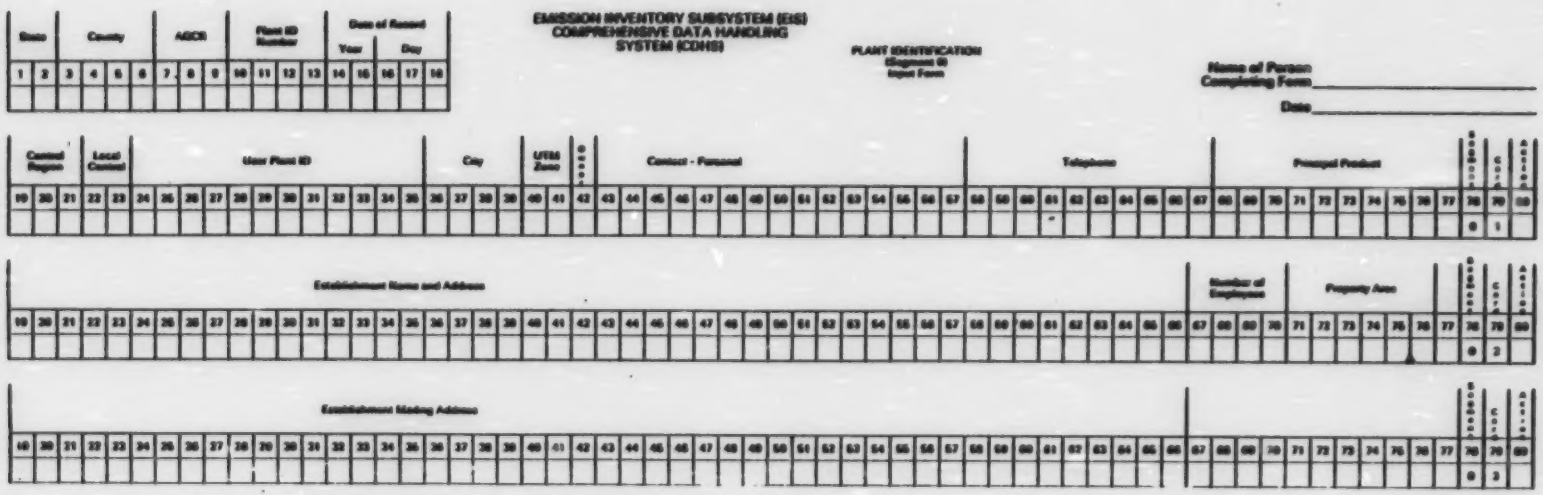

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FIGURE III-3

EMISSION INVENTORY SUBSYSTEM (EIS)
COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)

POINT SOURCE
(Segment 1)
Input Form

Name of Person Completing Form _____

Date _____

State	County	AQCR	Point ID Number	Date of Record: Year	Day
1 2	3 4 5 6	7 8 9	10 11 12 13	14 15	16 17 18

Segment ID	Point ID: AEDS	Point ID: User	SIC	SPF	UTM Coordinates: Horizontal	UTM Coordinates: Vertical	Latitude: Deg	Latitude: Min	Latitude: Sec	Longitude: Deg	Longitude: Min	Longitude: Sec	% Annual Throput: Dec-Feb	% Annual Throput: Mar-May	% Annual Throput: June-Aug	% Annual Throput: Sept-Nov	Normal Operating: Hr	Normal Operating: D	Normal Operating: Wk	Boiler Design Capacity	% Space Heat		Record Type	Card No.	Action Code
10 20	21 22 23 24	25	26 27 28 29	30 31	32 33 34 35	36 37 38 39 40	41 42 43 44	45 46	47 48 49	50 51	52 53	54 55	56 57	58 59	60 61	62 63	64 65	66 67	68 69 70	71 72	73 74	75 76 77	78	79	80
																							1	1	

Segment ID	Height	Diam	Temp	Stack Data: Flow Rate	Velocity	Plume Height	Pct. with Continuous Stack	Comp. Sched: Yr	Comp. Sched: Mo	Comp Stat Update: Yr	Comp Stat Update: Mo	Comp Stat Update: Day	Reg 1	Control Regulations: Reg 1	Reg 2	Reg 3		Record Type	Card No.	Action Code
10 20	21 22 23 24	25 26 27	28 29 30 31	32 33 34 35	36 37 38 39 40	41 42 43 44	45 46 47	48 49 50	51 52	53 54	55 56	57 58	59 60	61 62	63 64 65	66 67 68	69 70 71	72 73 74	75 76 77	78	79	80
																				1	2	

Segment ID	Pollutant ID	Control Equipment Cost	Primary Control Equipment	Secondary Control Equipment	Estimated Control Efficiency	Emissions Estimate	Measured Emissions	Allowable Emissions								Record Type	Card No.	Action Code
10 20	21 22 23 24 25	26 27 28 29 30 31	32 33 34 35	36 37 38	39 40 41	42 43 44 45 46 47 48	49 50 51 52 53 54 55	56 57 58 59 60 61 62	63	64	65	66 67 68 69 70 71 72 73 74 75 76 77				78	79	80
																1	3	

EPA/DURI/374

FIGURE III-4

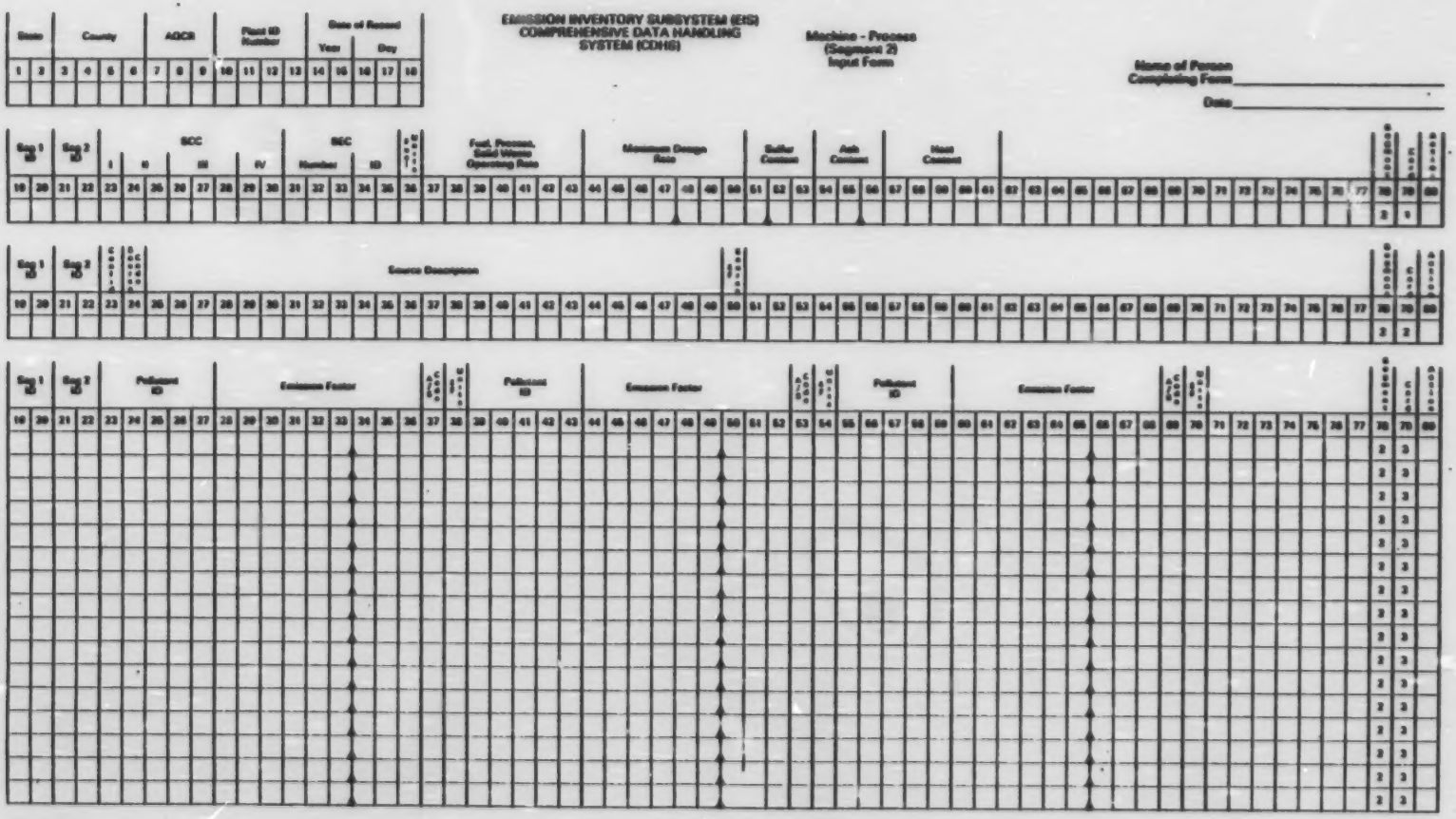
EMISSION INVENTORY SUBSYSTEM (EIS)
COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
Machine - Process (Segment 2) Input Form
Name of Person Completing Form
Date
State
County
AQCR
Plant ID Number
Date of Record
Year
Day
SCC
SEC
Number
Fuel, Process, Solid Waste Operating Rate
Maximum Design Rate
Sulfur Content
Ash Content
Heat Content
Source Description
Pollutant ID
Emission Factor
EPAIDIAR1376

FIGURE III-5

CHAPTER IV

UPDATED INVENTORY

FILE CONTENT

The New Jersey 1976 point source emission inventory presently consists of 668 facilities (industrial plants), representing 4229 emission sources (stacks) and approximately 5123 industrial processes. These figures represent a file content improvement of 50 percent with regard to facilities and 100 percent for both emission sources and industrial processes.(1) Most of the data currently in the inventory are representative of 1974-1975 plant operations. Statewide emissions for each criteria pollutant in tons per year are presented in Table IV-1. A summary by county of facility name with the respective NEDS plant identification number is presented in Appendix G.

TABLE IV-1

NEW JERSEY POINT SOURCE STATEWIDE EMISSIONS
(tons/year)

POLLUTANT	EMISSIONS
Particulate	326,902
Sulfur Dioxide	317,817
Nitrogen Oxides	1,125,180
Hydrocarbons	305,289
Carbon Monoxide	140,050

FEDERAL FACILITIES

During the summer of 1976, and as per the request of the project officer, all federal facilities were removed from the 1975 inventory. In February 1977, the Air Facilities Branch made available to ES the NEDS data in keypunched card form for nine federal facilities and requested their inclusion in the 1976 version of the inventory. The names of these facilities are presented in

(1) Basis for comparison was obtained from Reference 8.

Table IV-2. The NEDS AP-7 cards with additional comments could not be processed since including them in the inventory required a special programming effort. A list of these cards is presented in Appendix H.

FACILITIES CEASED OPERATIONS

As per the request of the project officer, all the facilities and emission sources in the 1975 inventory which had ceased operations were removed from the inventory. This occurred when (a) a source was defined as such in the files or (b) information from the questionnaires indicated that the operation had terminated.

INCOMPLETED WORK UNDER TASK ORDERS 11 AND 18

Several action items remain from Task Order 11 and 18 (Contract 68-02-1380) and require follow-up work. These activities are primarily associated with 114 or 113 responses that, for a variety of reasons, were outstanding at the conclusion of the ES effort. The following paragraphs briefly describe the actions remaining.

- Pending Responses - There were 32 facilities for which responses on the data requested under Sections 113 and 114 of the Clean Air Act were not received at ES. A list of these facilities is presented in Table IV-3.
- Facilities Not Locatable - There were 19 facilities for which the letter questionnaires under Section 114 were returned by the postal service. Address verification using the 1975 New Jersey Industrial Directory and the EPA CDS file did not result in better mailing addresses. In June 1976, and as per the request of the project officer, the names of these facilities were made available for his follow-up. A list of these facilities is presented in Table IV-3.
- Incomplete Responses - The inventory for 13 facilities could not be completed. These plants were part of a group of 37 which originally submitted incomplete questionnaires. The 13 plants are presented in Table IV-3. Some of the facilities were not responsive

TABLE IV-2

FEDERAL FACILITIES IN THE 1976 NEW JERSEY POINT SOURCE EMISSION INVENTORY

COUNTY	PLANT NUMBER	NAME
0660	0012	McGuire Air Force Base
0660	0014	Main Post - Fort Monmouth
0660	0080	Fort Dix
0780	0064	U.S. Coast Guard Training Center
2240	0026	Military Ocean Terminal
2980	0014	Naval Air Prop Test Center
3180	0013	Charles Wood Area - Fort Monmouth
3260	0005	Picatinny Arsenal
3900	0035	Naval Air Station, Lakehurst

TABLE IV-3

FACILITIES WITH INCOMPLETE UPDATE

COUNTY CODE	COUNTY NAME	PLANT NO.	PLANT NAME	OUTSTANDING RESPONSE	NOT LOCATABLE	INCOMPLETE RESPONSE	LETTER REQUIRED
0300	Bergen	0005	Royce Chem	X			
0300	Bergen	0012	Public Service Elec.		X		
0300	Bergen	0050	S. A. Schonbrunn Co.			X	
0660	Burlington	0019	Entomology Res. Sta.				X
0660	Burlington	0027	Pulverizing Services	X			
0660	Burlington	0028	So. Jersey Asphalt	X			
0660	Burlington	0031	Trap Rock Indust.		X		
0660	Burlington	0032	Bituminous Seal Coat.		X		
0740	Camden	0010	Allied Chemical	X			
0740	Camden	0045	National Portland Cmt	X			
0740	Camden	0065	Morie, J.S.		X		
1380	Essex	0004	Hoffmann Lardche			X	
1380	Essex	0040	S. J. Groves & Sons		X		
1380	Essex	0043	Kern-O-Mix	X			
1380	Essex	0052	Ronson Metals Corp.			X	
1380	Essex	0053	R. A. McDonough & Co.	X			
1380	Essex	0057	Belleville Finishing			X	
1380	Essex	0063	Edson Tool & Mfg. Co.			X	
1380	Essex	0068	Reddaway Mfg. Co.	X			
1380	Essex	0073	J. Wiss & Sons Co.	X			
1380	Essex	0075	Otto B. May Inc.			X	
1760	Gloucester	0023	Henry E.P. & Sons	X			
2240	Hudson	0004	Warren Brothers	X			
2240	Hudson	0005	Standard Brands, Inc.	X			

TABLE IV-3 (Continued)

FACILITIES WITH INCOMPLETE UPDATE

COUNTY CODE	COUNTY NAME	PLANT CODE	PLANT NAME	OUTSTANDING RESPONSE	NOT LOCATABLE	INCOMPLETE RESPONSE	LETTER REQUIRED
2240	Hudson	0011	Kearney Smltng & Refining	X			
2240	Hudson	0055	Ferguson Propeller & Recond.	X			
2240	Hudson	0057	Stone Container Corp.	X			
2240	Hudson	0059	Theobald Industries	X			
2240	Hudson	0066	National Oil Recovery	X			
2240	Hudson	0070	N.S. Indust. Baker Prod. Oil Div.	X			
2240	Hudson	0072	El Dorado Terminal Corp.			X	
2260	Hunterdon	0003	Trap Rock Indust.		X		
2980	Mercer	0026	Mercer City Asphalt		X		
3060	Middlesex	0005	Am. Smelting			X	
3060	Middlesex	0015	Air Prod. & Chem		X		
3060	Middlesex	0027	Kimberly Clark		X		
3060	Middlesex	0030	U.S. Gypsum Co.				X
3060	Middlesex	0064	Edison Plastics Co.	X			
3060	Middlesex	0071	Korelle Indust.	X			
3060	Middlesex	0097	So. Brunswick Asphalt	X			
3060	Middlesex	0098	Staseal		X		
3180	Monmouth	0020	C. H. Supthen Inc.		X		
3260	Morris	0021	Braen Incust.			X	
3260	Morris	0023	National Gypsum		X		
3260	Morris	0029	Sandoz-Wander, Inc.				X
3260	Morris	0030	Intercounty Paving		X		

TABLE IV-3 (Continued)

FACILITIES WITH INCOMPLETE UPDATE

COUNTY CODE	COUNTY NAME	PLANT NO.	PLANT NAME	OUTSTANDING RESPONSE	NOT LOCATABLE	INCOMPLETE RESPONSE	LETTER REQUIRED
4120	Passaic	0008	Laythan Foundry		X		
4120	Passaic	0009	Warren Brothers Co.	X			
4120	Passaic	0013	Pantasote			X	
4120	Passaic	0022	Pilot Woodworking		X		
4120	Passaic	0024	Passaic Asphalt		X		
4120	Passaic	0025	Passaic Crushed Stone	X			
4120	Passaic	0029	D. Stamato Co.		X		
4120	Passaic	0039	Brassbestos	X			
4120	Passaic	0040	American Polymers	X			
4120	Passaic	0047	John Van Der Stad				X
4120	Passaic	0050	Bryant Industries			X	
4120	Passaic	0061	North American Chemical	X			
4120	Passaic	0062	Continental Can Co.	X			
4120	Passaic	0068	Warren Bros. Div. Ashland Oil	X			
5020	Somerset	0012	Trap Rock Inc.			X	
5020	Somerset	0016	Houdaille Const. Mat.		X		
5020	Somerset	0018	3-M, Ind. Mineral Prod.			X	
5300	Sussex	0007	Sussex Road Materials	X			
5440	Union	0016	Garwood Asphalt		X		
5440	Union	0039	Chemical Control Corp.	X			
5440	Union	0052	Dolly Madison Kitchens	X			
5440	Union	0053	Purolater	X			
5660	Warren	0010	Hoffman Laroche				X
SUBTOTAL				32	19	13	5

to the follow-up phone calls made by ES. Other sources seemed cooperative, however, they did not have the resources to collect the data.

- o Letters Required - Once the preparation of the letter questionnaires under Section 114 had been finalized and work was initiated on other subtasks, ES identified five facilities which qualified for a letter questionnaire. As a result of the limited period of performance and turn-around time, the only feasible follow-up action was to generate, whenever possible, missing noncritical data items from reference documents.

IMPROVEMENTS TO THE PRESENT EMISSION INVENTORY

There are several activity areas which have received limited attention but could substantially enhance the present emission inventory. These activities are as follows:

- o Verification File - A statewide facility verification file identifying and prioritizing facilities with potential pollution sources and not in NEDS, should be prepared. Priority can be established based on: plant location in nonattainment areas; areas with large industrial growth projections; or by pollutant. Work should be directed toward the inclusion of these facilities in the NEDS file.
- o Additional Sources - The missing data forms prepared by ES under previous efforts addressed the possible existence of other emission sources, (frequently combustion sources), for the facilities updated and not found in the state files. In some cases these were tentatively identified as potential sources. In other cases it was impossible to estimate the types and number of sources that could be present at a specific facility. ES also identified those emission sources in NEDS which could not be updated since they could not be identified in the state file. Work should be directed toward the inclusion of these missing point sources in NEDS.
- o Facilities in the Original NEDS File - There are a substantial number of faciltiies in the 1976 version of the inventory from the original NEDS with data representative of plant operations for 1970 through

1973. Updates were never scheduled for these facilities under any of the previous efforts. The latest update performed by ES to the inventory involved only the generation of missing data items. Work should be directed toward the update of these facilities.

- o Data Quality Verification - An effort geared toward data quality verification should be initiated and maintained by the regional office. This activity area should pursue the validation of stack, process throughput, and emission data as reported by the facilities based on a series of descriminators.

CHAPTER V

SUMMARY AND RECOMMENDATIONS

1. ES was retained by the U.S. EPA through six contractual efforts during a four-year period to perform different types of improvements to the New Jersey point source emission inventory.

2. The inventory currently has 668 facilities, comprising 4,229 emission points and approximately 5,123 industrial processes. An improvement of 50 percent with regard to facilities and of 100 percent for both emission sources and industrial processes was achieved over the 1970 inventory.

3. Established EPA methodologies and guidelines were used in the data gathering and processing phases of the study.

4. The majority of the facilities in the inventory have emission and process data representative of 1974-1975 plant operations.

5. ES could not complete the update for 69 facilities. Forty-five of these did not comply with the letter questionnaire request and/or the follow-up phone calls; the questionnaires for 19 facilities were returned unclaimed; and five facilities required a letter questionnaire.

6. In order for past efforts to be fruitful, it is recommended that the present content of the inventory be updated at regular intervals and followed by a data quality verification effort.

7. It is recommended that improvements be made in the following activity areas:

   - Development of a verification file identifying and prioritizing facilities not in the NEDS file.
   - Inclusion in the inventory of those point sources which are not in the state files as a result of not undergoing modifications since the adoption of local regulations.
   - Updating those facilities in the original inventory for which a review was not scheduled by EPA under any of the previous contracts.

REFERENCES

1. U. S. Environmental Protection Agency, Monitoring & Data Analysis Division, "Guide for Compiling a Comprehensive Emission Inventory", EPA Publication No. APTD-1135, Research Triangle Park, N.C., 1973.

2. PEDCo - Environmental Specialists, "National Air Data Branch Emission Data Systems Training Manual", Cincinnati, Ohio. Prepared for the U.S. Environmental Protection Agency, Research Triangle Park, N.C., 1974.

3. U. S. Environmental Protection Agency, Information Services Division, "Compilation of Air Pollutant Emission Factors", EPA Publication No. AP-42, Research Triangle Park, N.C., 1973.

4. U. S. Environmental Protection Agency, Information Services Division, "Air Pollution Engineering Manual", EPA Publication AP-40, Research Triangle Park, N.C., 1973.

5. U. S. Environmental Protection Agency, "Control Device Work Book", Research Triangle Park, N.C., (1973).

6. State Industrial Directories Corporation, "1975 New Jersey State Industrial Directory". New Jersey State Industrial Directory, New York, 1975.

7. U. S. Environmental Protection Agency, "Exhaust Gases from Combustion and Industrial Processes". National Technical Information Service, Springfield, Va., (1972).

8. U. S. Environmental Protection Agency, National Air Data Branch, "NEDS Missing Items Report".

9. U. S. Bureau of the Census, Census of Manufacturers, 1972. "General Statistics for Establishments by Industry Group and Industry", U.S. Government Printing Office.

APPENDIX A

FACILITIES IN CENTRAL AND SOUTHERN NEW JERSEY

CODED BY ENGINEERING-SCIENCE

The information contained in this Appendix represents the work done by ES during the latter part of 1974 under contract 68-02-1380 (T.O. #6) and does not reflect upgrades performed to the New Jersey EIS/PNR Master File in later efforts.

TABLE A-1

FACILITIES IN CENTRAL AND SOUTHERN NEW JERSEY
CODED BY ENGINEERING-SCIENCE

NEDS Plant No.(1)	County	Source Name
001	Burlington	Kaiser Gypsum Co.
022	"	Trap Rock Industries, Inc.
023	"	Pacemaker Corp.
024	"	Stephan Chemical Co.
025	"	McGraw-Edison
026	"	Bernhiem-Siegel Corp.
027	"	Merideth Paving
028	"	South Jersey Asphalt
029	"	Burlington Asphalt
001	Hunterdon	N.J. Power & Light - Gilbert Station
003	"	A. Farrante & Sons
001	Mercer	Public Service Electric & Gas
017	"	Albert E. Barrett Co.
026	"	Mercer County Asphalt
027	"	Circle F Industries
020	"	Nearpara Rubber
028	"	General Motors

(1) The plant identification numbers do not necessarily correspond to those assigned to the same facilities during the most recent efforts.

TABLE A-1 (Continued)

FACILITIES IN CENTRAL AND SOUTHERN NEW JERSEY

CODED BY ENGINEERING-SCIENCE

NEDS Plant No. (1)	County	Source Name
017	Monmouth	Lyncar Corp.
018	"	Fred McDowell
019	"	Stavola Contracting
020	"	C.H. Supthen, Inc.
021	"	E. Schroth
007	Morris	Whippany Paper Board - Eden Mill
009	"	Tri-County Aspahlt Corp.
017	"	Mt. Hope Materials
018	"	Flanders Asphalt & Concrete
019	"	Readi-Crete Corp.
020	"	Keuffel & Esser Co.
021	"	Braen Industries
022	"	Leslie Company
023	"	National Gypsum
024	"	Philadelphia Quartz
025	"	Whippany Paper Board - Hanover Mill
026	"	Whippany Paper Board - Stoney Brook Mill
027	"	Rowe International
028	"	Flintkote
012	Ocean	Manzo Contracting
011	"	Jackson Asphalt & Concrete
014	"	Ocean Asphalt
013	"	Thomas Nicol Asphalt
010	"	Walter Earl
015	"	SCM Corporation
009	"	Brick Wall Corporation

TABLE A-1 (Continued)

FACILITIES IN CENTRAL AND SOUTHERN NEW JERSEY
CODED BY ENGINEERING-SCIENCE

NEDS Plant No.(1)	County	Source Name
003	Warren	Celanese Coatings
005	"	Pearsall Chemical Co.
006	"	Kramer Oil Corp.
007	"	Asbury Graphite Mills
001	Salem	Atlantic City Electric
002	Somerset	Uniset Asphalt
003	"	Johns-Manville
012	"	Trap Rock
013	"	Allied Chemical
014	"	Dock Watch Quarry Pit
015	"	Fanwood Crushed Stone
016	"	Houdaille Construction Materials
017	"	Princeton Chemical Research
018	"	3-M Corp.
02	Sussex	Tri-County Asphalt
04	"	Farber White Limestone
05	"	Andover Industries (Newton Asphalt)
06	"	Hamburg Quarries

TABLE A-1 (Continued)

FACILITIES IN CENTRAL AND SOUTHERN NEW JERSEY

CODED BY ENGINEERING-SCIENCE

NEDS Plant No. (1)	County	Source Name
0001	Cumberland	Owens Illinois (Vineland)
0002	"	Kerr Glass
0004	"	Owens Illinois (Bridgton)
0005	"	Wheaton Ind.
0008	"	Agway Petroleum
0009	"	Bridgeton Dye & Finish
0013	"	ITT Corp
0014	"	Leone Ind.
0015	"	Newcomb Hospital
0017	"	South State Inc.
0018	"	Tyler Corp.
0019	"	Vineland Corp.
0020	"	Vineland Municipal Electric Utilities
0025	"	Pettinos, G. F.
0026	"	Morie, J. S. (Vineland)
0027	"	Morie, J. S. (Commercial)
0028	"	Whitehead Bros. (Morris River)
0029	"	Whitehead Bros. (Downe)
0030	"	Atlantic City Elec.
0031	"	Continental Co.
0032	"	Unisil
0033	"	ESPOMA
0034	"	Star Fish & Bone Fert.
0035	"	E. P. Henry
0036	"	Whitehead Bros. (Brt Elizabeth)

TABLE A-1 (Continued)

FACILITIES IN CENTRAL AND SOUTHERN NEW JERSEY

CODED BY ENGINEERING-SCIENCE

NEDS Plant No.(1)	County	Source Name
0002	Atlantic	Atlantic City Electric
0003	"	AE Stone
0004	"	Lenox China
0007	"	Eastern Transit
0008	"	Atlantic City Hosp.
0010	"	Kessler Memorial Hosp.
0011	"	Scott Paper Co.
0012	"	Kerr Concrete Pipe Co.
0014	"	Wheaton, Ind.
0015	"	Arawak Paving
0016	"	Atlantic City Med. Center
	Cape May	
0001		Atlantic City Electric
0002	"	NW Magnesite (now Harbison Walker)
0010	"	Burdett Tomling Hospital
0012	"	Timme Fabrics
0013	"	Atlantic City Electric
0014	"	Gerald Barrett Inc.
0014	Glouster	Camden Lime
0021	"	Atlantic City Elec.
0037	"	Atlantic City Elec.

APPENDIX B

FACILITIES REVIEWED BY ENGINEERING-SCIENCE IN NORTHERN NEW JERSEY

The information contained in this Appendix represents the work done by ES during the early part of 1975 under Contract 68-02-1380 (T. O. No. 8) and does not reflect subsequent upgrades nor coding problems encountered in later efforts.

TABLE B-1

FACILITIES IN NORTHERN NEW JERSEY CODED BY ENGINEERING-SCIENCE

Plant ID (1)	County	Name
001	Bergen	Abex Corp.
003	"	Hills Bros. Coffee
006	"	Lowe Paper Co.
007	"	S. B. Penick
002	"	Ford Motor Co.
008	"	Sandoz Chemical
012	"	Pub. Serv. Elec.
010	"	Diamond Alakali
014	"	Garden State Paper
029	"	Pinewood Sawdust
030	"	Little Ferry Asphalt
031	"	Bergen Asphalt
034	"	Ashland Oil
035	"	Bentex Mills
037	"	Burroughs
038	"	Jim Walter Corp. (Celotex)
039	"	Barclay Industries
040	"	Curtis Wright Corp.
041	"	Pilot Woodworking
042	"	Unifoil Corp.
043	"	Fields Plastics & Chemicals
044	"	Stranahan Foil Co./Gravure Flex
045	"	Houbigant
046	"	East Coast Finishing Corp.
047	"	H&S Chemical
005	"	Royce Chem. Co.
048	"	Scientific Chemical Processing (Treat)
049	"	Omni Chemical Corp.
050	"	S. A. Schonbrunn & Co.
051	"	Inmot Corp.
052	"	Savant Finishing Corp.
053	"	Tenneco Chemicals Inc.
054	"	Fleming, Joffe, Jentra Ltd. dba Genset Corp. (formerly Tenneco Foam - Moonachie)

TABLE B-1(Continued)

FACILITIES IN NORTHERN NEW JERSEY CODED BY ENGINEERING-SCIENCE

Plant ID (1)	County	Name
055	Bergen	Finetex, Inc.
056	"	Great Eastern Textile Printing
057	"	Tenneco Inc., Foam & Plastics Div., (Carlstadt)
011	"	Lever Bros.

TABLE B-1 (Continued)

FACILITIES IN NORTHERN NEW JERSEY CODED BY ENGINEERING-SCIENCE

Plant ID (1)	County	Name
002	Essex	American Smelting & Refining
004	"	Hoffmann La Roche
010	"	Ashland Chemical
011	"	Essex Chemical Corp.
012	"	Pitt Consol Chem.
009	"	Anheuser-Busch, Inc.
033	"	Flockhart Foundry
034	"	Bossert & Company
035	"	Barth Smelting
036	"	S. B. Penick
037	"	Xcel Corp.
038	"	Bergen Machine & Tool
039	"	Bierman-Everett Foundry
040	"	S. J. Groves & Sons
005	"	Tri-County Asphalt
041	"	Newark Asphalt
042	"	Nimco Shredding
043	"	Kern-O-Mix
044	"	Fluid Chemical Co.
045	"	Bayonne Barrel & Drum
046	"	Keystone Metal Co.
047	"	Orange Quarry
048	"	New Jersey Packaging Corp.
049	"	Westinghouse Electric
050	"	Farmers Feed Co. of NY
051	"	Barnett Foundry & Machine Co.
052	"	Ronson Metals Corp.
053	"	R. A. McDonough Co.
054	"	McGraw-Edison
055	"	Walter Kidde & Co., Inc.
056	"	Flexon Industries, Inc.
057	"	Belleville Finishing Corp.
058	"	Ottex, Inc.

TABLE B-1 (Continued)

FACILITIES IN NORTHERN NEW JERSEY CODED BY ENGINEERING-SCIENCE

Plant ID(1)	County	Name
059	Essex	Orbis Products Corp.
060	"	Stanley Works
061	"	Tenax Finishing Products Co.
062	"	Shelton Mfg. Co.
063	"	Edson Tool Mfg.
064	"	Bee Chemical Co. dba Howmet Corp.
065	"	Honig Chemical & Processing Co.
066	"	Peerless Tube Co.
067	"	Benjamin Moore
068	"	Reddaway Mfg. Co.
069	"	Wondura Products, Inc.
070	"	Port of New York Authority-Newark Airport
071	"	Sun Oil
072	"	National Starch & Chemical Corp.
073	"	J. Wiss & Co.
074	"	Max Marx Color & Chemical Co.
075	"	Ottor B. May, Inc.
076	"	Inland Chemical
077	"	Englehard Industries
078	"	Newark City Board of Ed., Charlton St.
079	"	" " " " , Bragaw Ave.
080	"	" " " " , Hawkins Ave.
081	"	" " " " , Summer Ave.
082	"	" " " " , Abington Ave.
083	"	" " " " , Camden St.
084	"	" " " " , S. 10th St.
085	"	Texaco Inc. dba Paragon Oil Co.
086	"	Continental Oil Co. - Coastal Oil Div.
087	"	Public Service Electric & Gas
007	"	Millmaster Onyx, A. Gross Div.
008	"	Pabst Brewing
016	"	Pub. Serv. Elec.

TABLE B-1(Continued)

FACILITIES IN NORTHERN NEW JERSEY CODED BY ENGINEERING-SCIENCE

Plant ID (1)	County	Name
005	Hudson	Standard Brands
018	"	Colgate-Palmolive
002	"	Campbell Foundry
004	"	Warren Bros., Div. of Ashland Oil
007	"	Alco Gravure dba McMillan, Inc.
001	"	Bergen Point Brass Foundry
013	"	Texaco, Inc.
011	"	Kearny Smelting & Refining
014	"	Worthington Marine
021	"	P.S.E.&G Hudson Generating
024	"	U.S. Gypsum Co.
043	"	H.B. Reed Co.
044	"	International Salt
017	"	Turvan Asphalt
045	"	Alpha Metals, Inc. (Jersey City)
046	"	Trumbull Asphalt
003	"	Best Foods Div., CPC Int'l
048	"	Crown Cork & Seal Co.
049	"	Electric Casting Corp.
050	"	Lightolier Div., Corona Lighting
051	"	Radial Casting Corp.
052	"	Technical Plastics Extruders, Inc.
053	"	Importers Services, Inc.
054	"	Scope Industries - Dext Food Corp.
055	"	Ferguson Propeller & Recond., Ltd.
056	"	Garden State Paper Converters, Inc.
057	"	Stone Container Corp.
058	"	Staley Chem. Div. of A.E. Staley Mfg. Co.
059	"	Theobald Industries
060	"	Congoleum Ind., Congoleum Nairn Div.
061	"	Millmaster Onyx, Onyx Chem. Div.
062	"	Diamond Alkali Co., Nopco Chem. Div.

TABLE B-1 (Continued)

FACILITIES IN NORTHERN NEW JERSEY CODED BY ENGINEERING-SCIENCE

Plant ID	County	Name
063	Hudson	RCA Corp.
064	"	Duro-Test Corp. Tungsten Products Corp.
065	"	Arvey Corporation
066	"	National Oil Recovery
067	"	Plastic Corp.
068	"	Inland Steel Corp.
069	"	Western Electric (Kearny)
070	"	N.L. Industries Inc., Baker Caster Oil, Inc.
071	"	ICI United States, Inc.
072	"	El Dorado Terminals
073	"	Gordon Terminal Service Co.
074	"	Exxon Corp., Exxon Chemical Co.
075	"	Alpha Metals Inc. (Jersey City)
076	"	Mallinckrodt Chemicals Works
077	"	Amerada Hess (Bayonne)
078	"	Nu-Method Dyeing & Processing
079	"	Prolerized Schiabo Neu Co.
080	"	Greenwich Mills Co.
081	"	BASF Wyandotte Corp.
082	"	General Foods Corp. (Maxwell House Div.)
009	"	Monsanto Co.
010	"	Koppers Inc.
022	"	Pub. Serv. Elec. (Kearny)
023	"	Pub. Serv. Elec. (Marion)
047	"	Best Foods (Div. of CPC)

TABLE B-1 (Continued)

FACILITIES IN NORTHERN NEW JERSEY CODED BY ENGINEERING-SCIENCE

Plant ID (1)	County	Name
002	Middlesex	U.S. Metals Refining
004	"	Tenneco Foam
006	"	Jersey Central Power & Light - Werner Station
007	"	Jersey Central Power & Light - Sayerville Station
009	"	Stauffer Chemical
010	"	Edison Asphalt
024	"	N. L. Industries
027	"	Kimberly Clark
028	"	Delco Remy
030	"	U.S. Gypsum S. Plainfield
035	"	Metro Container
025	"	Ford Motor Co.
113	"	Kaiser Aluminum & Chemical
021	"	Shell Oil Co.
050	"	Penwalt
020	"	Phila Quartz Co.
051	"	Quaker Oats
033	"	Tenneco Chem. (Organics & Poly. Div.)
052	"	J. Walter Corp. (Celotex)
014	"	Hatco Chem. dba W. R. Grace & Co.
053	"	Gallo Asphalt Co.
054	"	Federal Chemical
056	"	TPCO
112	"	N. American Metal & Chemical
058	"	Chamberlin & Barclay
059	"	Morton Salt
060	"	South River Sand
061	"	Inland Container
062	"	Metropolitan Talc Co.
063	"	A. W. Brands Co.
064	"	Blessings Inc., Edison Plastics Co., Div.
065	"	Charles Pfizer; Quigley Co., Inc.

TABLE B-1 (Continued)

FACILITIES IN NORTHERN NEW JERSEY CODED BY ENGINEERING-SCIENCE

Plant ID (1)	County	Name
066	Middlesex	Outerbridge Terminal, Inc.
067	"	Anchor Abrasives Corp.
068	"	Richardson Co.
069	"	Bird & Sons, Inc.
070	"	Inmont Corp., Color & Chemical Div.
071	"	Korelle Industries, Inc.
072	"	Dow Chem.
073	"	Economics Laboratory, Inc.
074	"	Reichhold Chem.
075	"	Triangle Conduit & Cable
076	"	New Jersey Steel & Structural Corp.
077	"	Witco Chem.
078	"	Russell-Stanley Corp.
079	"	Tenneco Chem-Intermediates
080	"	Twin Bridge Asphalt, Inc.
081	"	Commonwealth Refining
082	"	Prospect Industries
083	"	Beecham Inc., Beecham Pharmaceuticals Div.
084	"	United Steel Deck, Inc.
085	"	Alcan Aluminum Corp.
086	"	Phillips Petroleum Co.
087	"	American Oil Co.
088	"	Alpha Associates, Inc.
089	"	Ashland Oil & Refining Co.
090	"	American Can Co. (Kilmer Rd.)
091	"	Fedders Corp.
092	"	Mobil Chemical Co.
093	"	American Can Corp. of NJ (Pierson Ave.)
094	"	Schundler Co.
095	"	Electronic Memories & Magnetics Corp.
096	"	Reynolds Metals Co.
097	"	South Brunswick Asphalt
098	"	Staseal, Inc.

TABLE B-1 (Continued)

FACILITIES IN NORTHERN NEW JERSEY CODED BY ENGINEERING-SCIENCE

Plant ID (1)	County	Name
099	Middlesex	National Can Corp. (Edison)
100	"	National Can Corp. (Piscataway) dba Consolidated Cork Closure Div.
101	"	Rhodia, Inc.
102	"	General American Transportation
103	"	American Standard
0012	"	Titanium Pigment Div., N.L. Industries
104	"	L.J.&M. LaPlace
105	"	Royal Petroleum Corp.
0016	"	E.I. DuPont - Finishes Div.
0106	"	C. P. Chemicals, Inc.
0107	"	G.R.J. Industries, Inc.
0108	"	Hexcell Corp. dba Fine Organics Inc.
0017	"	Hercules
0109	"	Stabilized Pigments, Inc.
0011	"	FMC Corp.
0022	"	Anaconda (Int'l Smelting)
0018	"	E.I. DuPont (Photo Prod. Dept.)
0031	"	Union Carbide
0034	"	Amerada Hess (Port Reading)
0005	"	A M Smelting
0008	"	Public Serv. Elec.
0023	"	Anlin Co. of N. J.

TABLE B-1 (Continued)

FACILITIES IN NORTHERN NEW JERSEY CODED BY ENGINEERING-SCIENCE

Plant ID (1)	County	Name
001	Passaic	E.I. DuPont
002	"	Merck Chemical
005	"	Samual Braens Sons
007	"	Allied Textile Printers Corp.
009	"	Warren Bros.
010	"	Allied Chemical
011	"	Whippany Paper
022	"	Pilot Woodworking
013	"	Pantasote Co.
023	"	Preakness Asphalt
024	"	Passaic Asphalt
025	"	Passaic Crushed Stone
026	"	Bay State Milling
027	"	North Jersey Foundry
028	"	Greater New York Box Co.
029	"	D. Stamato Co.
030	"	Kaysam Corp. America
031	"	Fritzche-Dodge & Olcot
032	"	Reynolds Metals Co.
033	"	S. B. Thomas
034	"	Gulf Plastics Prod.
035	"	Geographic Materials
036	"	Miles Lab
037	"	Union Carbide
038	"	U.S. Bronze Powders, Inc.
039	"	Brassbestos Mfg.
040	"	American Polymers
041	"	Houdaille Const. Material
042	"	Dart Indust. (White Metals Div.)
043	"	Shulton Inc.
044	"	Standard Packaging Corp.
045	"	Sun Chemical Corp.
046	"	East Coast Finishing Corp.

TABLE B-1 (Continued)

FACILITIES IN NORTHERN NEW JERSEY CODED BY ENGINEERING-SCIENCE

Plant ID (1)	County	Name
047	Passaic	John Van Der Stad
048	"	Missbrenner Prints, Inc.
049	"	Riverside Novelty Printers
050	"	Bryant Industries Corp., Fabrics, Inc.
051	"	Duro Test Corp., Tungsten Prod. Div.
052	"	Continental Can Co. (Wayne)
053	"	Congress Textile Printers, Inc. dba Capitol Printers &/or Dandy Flocks, Inc.
054	"	Roma Printing & Finishing Corp.
055	"	Malan Dyeing & Finishing Co.
056	"	Continental Can Co. (Brook Ave.- Passaic)
057	"	Perennial Print Corp.
058	"	Pallman Pulverizers Co.
059	"	Leader Dyeing & Fininshing Co.
060	"	North American Chemical Corp. (28 Mercer St.)
061	"	North American Chemical Corp. (150 - 158 Keen St.)
062	"	Continental Can Co.
063	"	Combinates Corp.
064	"	Givaudan Corp.
065	"	Inmont Corp., Color & Chemical Div.
066	"	Little Falls Serv. Laundry Corp.
067	"	National Distillers Chem. Corp. (Inwood Knitting Mills Div.)
068	"	Ashland Oil & Refining Co.
069	"	Witco Chemical Co.
070	"	John-Mansville Products Corp.
071	"	Royal Finishing Corp.

TABLE B-1 (Continued)

FACILITIES IN NORTHERN NEW JERSEY CODED BY ENGINEERING-SCIENCE

Plant ID (1)	County	Name
001	Union	Allied Chemical
006	"	General Motors, Assembly Div. Linden
007	"	DuPont
009	"	Merck Chemical
010	"	National Starch
013	"	M & T Chemicals
015	"	Weldon Asphalt
016	"	Garwood Asphalt
017	"	Ciba Geigy
019	"	American Can Co.
021	"	Allied Chemical
022	"	Singer
023	"	Phelps Dodge Copper
033	"	Mobil Oil
034	"	U.S. Gypsum
035	"	Volvo Brass & Copper
036	"	American Plywood
037	"	Texaco, Inc.
038	"	American Cyanamid
039	"	Chemical Control
040	"	BP Oil
041	"	Buckeye Pipeline
042	"	Chelsea Industries
043	"	Dri Print Foils
044	"	GAF
045	"	Inmont
046	"	Griffith Labs
047	"	Houdaille Construction
048	"	Poly Plastex
049	"	Schering Corp.
050	"	Waverly Properties
051	"	Cities Service

TABLE B-1 (Continued)

FACILITIES IN NORTHERN NEW JERSEY CODED BY ENGINEERING-SCIENCE

Plant ID(1)	County	Name
052	Union	Dolly Madison Kitchens
053	"	Purolator
054	"	Sealol
055	"	Alcan Metal Powders
056	"	Cooper Alloy Corp.
057	"	Rheem Mfg. Co.
058	"	Koppers Co.
059	"	Dock Resins Corp.
060	"	Reheis Chemical Co., Div. of Armour Pharmaceutical Co.
061	"	Millmaster Onyx Corp.
062	"	Elizabeth City Housing Authority
063	"	Elizabeth City Board of Ed. - New George Washington School #1
064	"	Exxon Corp., Exxon Chemical Co.
012	"	Reichhold Chemical (Eliz.)
065	"	Universal-Newark Container Corp.
003	"	Exxon Corp., Exxon Co., U.S.A. Div.
014	"	TENCO

(1) The plant identification numbers do not necessarily correspond to those assigned to the same facilities during the most recent efforts.

TABLE B-2

FACILITIES NOT CODED DUE TO
INSUFFICIENT DATA OR FILES UNAVAILABLE

Company Name	Details
BERGEN COUNTY	
1. Borden, Inc. Borden Chemical Div. Fairlawn	Only Chapter 12 file available.
2. Phillips Fuel Co. Hackensack	Only Chapter 10 file available.
3. Winston Mills, Inc. Arnatex Div. Boyota	Files in Trenton.
4. All Purpose Roll Leaf Corp. Paramus	Chapter 7 file does not contain sufficient information for coding.
ESSEX COUNTY	
1. Steel & Alloy Tank Co. Newark	This facility has a Chapter 12 file only.
2. Tenneco Oil Newark	Chapter 9 & 12 files do not contain enough data for coding.
3. Chase Chemical Co. Newark	Chapter 12 file only.
4. Essex County, Board of Freeholders Overbrook Hospital Cedar Grove	Chapter 12 file only. Chapter 5 file is closed and at the Southern Field Office.
5. Newark Housing Authority	Total of 329 incinerators in process of being abandoned in favor of compactors. Insufficient information for coding into NEDS.
6. Orange City Housing Authority Orange	4 locations - only a Chapter 11 file for each and these are listed as inactive (closed) and are at the Southern Field Office.
7. Engelhard Industries, Inc. Murray Street Newark	Chapter 9 file in Trenton.
8. Engelhard Industries, Inc. (American Platinum Silver Products) Newark	This facility has a Chapter 12 file only.
9. University Grain C[illegible]. of New Jersey	No such entity in NJ Metro office files.

TABLE B-2 (Continued)

FACILITIES NOT CODED DUE TO
INSUFFICIENT DATA OR FILES UNAVAILABLE

Company Name	Details
ESSEX COUNTY (cont'd)	
10. Nessor Alloy Corp. West Caldwell	Chapter 9 file does not contain sufficient information for coding.
11. Nanes Metal Newark	Chapter 6 & 12 files only.
12. Newark Paraffin & Paper Co. Newark	Chapter 12 file only.
13. Ocean Leather Newark	Chapter 10 and 12 files only.
14. Flan Chemical Co.	Chapter 12 file only.
15. Fiske Brothers Refining Company	Files in Trenton.
16. Hillside Metal Products Newark	Two facilities: the Carteret Hwy. plant has a closed Chapter 9 file (Southern Field Office); Passaic St. plant has only a Chapter 12 file.
HUDSON COUNTY	
1. Alcan Aluminum Kearny	Chapter 7 file is available but insufficient for coding and Chapter 9 file is not available.
2. Bayonne Industries	The information in Chapter 9 is insufficient for coding.
3. Kraftco Jersey City	Files in Trenton (Glass Co.).
4. Kraft Corrugated Container Bayonne	No Chapter 7 or 9 files.
5. North Jersey Incinerator	Only Chapter 11 file (insufficient for coding).
6. S. Blickman Weghawkin	Only Chapter 12 file.
7. Alpha Metals Kearny	An Alpha Metals Facility was coded for Jersey City.
8. Erie Lackawana Hoboken	No codable data (only Chapters 2 and 6).
9. Central Railroad of NJ Jersey City	File closed and in Southern Field Office.

TABLE B-2 (Continued)

FACILITIES NOT CODED DUE TO
INSUFFICIENT DATA OR FILES UNAVAILABLE

	Company Name	Details
HUDSON COUNTY (cont'd)		
10.	Bethlehem Steel Shipbuilding Hoboken	Chapter 9 file does not contain any info which could be coded.
11.	Hess Secaucus	No file.
12.	R. Neumen Hoboken	Only Chapter 10 file.
13.	American Universal Papercraft Corp. Jersey City	Chapter 9 file in Trenton.
14.	Owens-Illinois North Bergen	Chapter 7 file in Trenton.
15.	Talon Adhesives Kearny	Chapter 12 file only.
16.	Westinghouse Jersey City	None in Hudson County.
MIDDLESEX COUNTY		
1.	Natuar Corp. Woodbridge	Chapter 9 file closed and in Southern Field Office.
2.	Colonial Pipeline Co.	Chapter 12 file only.
3.	Lumurel Plastics Woodbridge	Only Chapter 12 file.
4.	Amerada Hess Perth Amboy	Only Chapter 12 file.
5.	Amerada Hess Sewaren	Only Chapter 12 file.
6.	Public Service Sewaren	Chapter 5 is outdated as the facility no longer burns coal. Chapter 9 permits are cancelled.
7.	Harris Structural Steel Co., Inc. South Plainfield	Chapter 12 file only.
9.	Amerada Hess, Smith St. Perth Amboy	Chapter 12 file only.

TABLE B-2 (Continued)

FACILITIES NOT CODED DUE TO
INSUFFICIENT DATA OR FILES UNAVAILABLE

Company Name	Details
PASSAIC COUNTY	
1. Sterling Creative Textile Printing Co. Paterson	Chapters 4 and 12 only.
UNION COUNTY	
1. American Can	Chapter 9 file is in Trenton. It is not possible to correlate Chapter 7 file stacks with CT numbers until the Chapter 9 file is available.
2. Gulf Oil Co. - U.S. Marshes Dock Rd. Linden	Chapter 12 file only.

APPENDIX C

FINAL REPORT

FOR

CONTRACT 68-01-3137 T.O. No. 7

UPDATE OF NEW JERSEY
NATIONAL EMISSION DATA SYSTEM (NEDS)

CONTRACT 68-01-3137

Task Order No. 7

Submitted to

U.S. Environmental Protection Agency
Office of General Enforcement
Division of Stationary Source Enforcement

Submitted by

Engineering-Science, Inc.
7903 Westpark Drive
McLean, Virginia 22101

September 1977

C-1-a

INTRODUCTION

Engineering-Science, Inc. was retained by the U.S. Environmental Protection Agency at Region II to update the New Jersey point source master file with approximately seven thousand existing NEDS transactions. These transactions comprised updates to point sources in the file as well as entry of new facilities. Due to several software and hardware problems EPA found it difficult to make these updates through their facility at Research Triangle Park. This level of effort resulted in an updated version of the New Jersey point source master file.

DEVELOPMENT OF PROJECT

A copy of the current New Jersey NEDS file was used to generate a base year P&R point source master file. Obvious keypunch errors on the NEDS transactions made available by EPA were corrected using the text editing facilities at ES. These transactions were later sorted and converted to P&R transactions and incorporated into the base year P&R master file. As a result of this update run a series of the 7,000 transactions were rejected. The following are examplary of the problems which caused some of the transactions to be rejected:

- Duplicate records - duplicate occurrence of point or plant I.D.
- Incomplete or incorrect action and identifier fields - these refer to the action codes (ADD, DELETE, CHANGE) and the plant key (County, AQCR, Plant and Point I.D.) respectively.
- Incomplete records - points without a complete set of cards.

At the time, ES proceeded to make the necessary corrections using as reference the NEDS load sheets. As a result of this exercise, ES concluded that the majority of the problems were due to key punch errors. Typical corrections included completion of fields for which the data had not been keypunched as well as correction of action codes that had been processed erroneously. Also, clarification of duplicate records.

Once the rejected transactions were updated they were used to generate subsequent file updates. The procedure outlined above was followed until all the transactions were processed.

In addition, ES coded and entered into the master file several 114 responses as made available by the project officer.

WORK ACHIEVED

The resulting updated point source master file for New Jersey was made available to EPA during the earlier part of February 1976. The file consists of the base year NEDS updated with the 7,000 transactions made available earlier by EPA Region II. The file comprises approximately four-hundred facilities which are inclusive of almost 2,500 emission points.

FINANCIAL SUMMARY

The level of effort required to complete this task order was 256 manhours at an approximate total cost of $5,732.71. The following breakdown of the cost is offered:

Total Labor & Overhead	$4,763.92
Total ODC	$ 968.79

Table 1 summarizes, on a weekly basis, the manpower required to complete this task.

TABLE 1

WORK LOG - TASK ORDER 7

MANHOURS - WEEK ENDING

	1/16/76	1/23/76	1/30/76	2/06/76	2/20/76	2/27/76	3/12/76	3/26/76	4/02/76	4/23/76	TOTAL
PRINCIPALS	32	16	8.0	--	--	--	--	--	--	--	56.0
ENGINEER/SCIENTIST	41	55	62.0	10.0	1.0	1.0	--	--	--	--	170.0
DRAFTING/TECH	--	--	--	--	--	--	1.0	--	--	--	1.0
SUPPORT SERVICES	19	0.5	1.0	--	--	--	--	3.0	4.5	1.0	29.0
										TOTAL	256.0

APPENDIX D

LETTER QUESTIONNAIRE

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II
26 FEDERAL PLAZA
NEW YORK, NEW YORK 10007

Dear Sir:

The U.S. Environmental Protection Agency requests your cooperation in providing information on air pollution emissions from your plant. The primary purpose for this request is to obtain an up-to-date emission inventory for the State of New Jersey which will be used to assess air quality levels. Some data has already been collected on your plant from the DEP, plant inspections, and other written requests. The information requested herein consists of missing data on your operations and/or updates to data collected several years ago.

Pursuant to the authority of Section 114 of the Clean Air Act 142 U.S.C. §1857 et seq., and subject to the sanctions imposed by Section 113 of the Act (see Attachment I), EPA requires that you provide the information requested in Attachment II.

EPA has engaged Engineering-Science, Inc., a private consulting firm, to assist in processing the emission data. The completed form should be returned to Engineering-Science at:

Engineering-Science, Inc.
Air Quality Studies Section
7903 Westpark Drive
McLean, Virginia 22101

Any questions concerning this request should also be directed to Engineering-Science representatives, Clara Vidal or Michael E. Lukey at (703) 790-9300.

Time is of the essence in completing this effort. You are requested to complete the form within ten (10) days of receipt of this letter. Your cooperation is appreciated.

Very truly yours,

Meyer Scolnick

Meyer Scolnick
Director
Enforcement Division
U.S. Environmental Protection Agency
Region II

MS/CV/klh

Enclosures

FEDERAL ENFORCEMENT

"SEC. 113. (a) (1) Whenever, on the basis of any information available to him, the Administrator finds that any person is in violation of any requirement of an applicable implementation plan, the Administrator shall notify the person in violation of the plan and the State in which the plan applies of such finding. If such violation extends beyond the 30th day after the date of the Administrator's notification, the Administrator may issue an order requiring such person to comply with the requirements of such plan or he may bring a civil action in accordance with subsection (b).

"(2) Whenever, on the basis of information available to him, the Administrator finds that violations of an applicable implementation plan are so widespread that such violations appear to result from a failure of the State in which the plan applies to enforce the plan effectively, he shall so notify the State. If the Administrator finds such failure extends beyond the thirtieth day after such notice, he shall give public notice of such finding, (A) during the period beginning with such public notice and ending when such State satisfies the Administrator that it will enforce such plan (hereafter referred to in this section as 'period of Federally assumed enforcement') (B) the Administrator may enforce any requirement of such plan with respect to any person—

"(A) by issuing an order to comply with such requirement, or

"(B) by bringing a civil action under subsection (b).

"(3) Whenever, on the basis of any information available to him, the Administrator finds that any person is in violation of section 111(e) (relating to new source performance standards) or 112(c) (relating to standards for hazardous emissions), or is in violation of any requirement of section 114 (relating to inspections, etc.), he may issue an order requiring such person to comply with such section or requirement, or he may bring a civil action in accordance with subsection (b).

"(4) An order issued under this subsection (other than an order relating to a violation of section 112) shall not take effect until the person to whom it is issued has had an opportunity to confer with the Administrator concerning the alleged violation. A copy of any order issued under this subsection shall be sent to the State air pollution control agency of any State in which the violation occurs. Any order issued under this subsection shall state with reasonable specificity the nature of the violation, specify a time for compliance which the Administrator determines is reasonable, taking into account the seriousness of the violation and any good faith efforts to comply with applicable requirements. In any case in which an order under this subsection (or notice to a

violator under paragraph (1)) is issued to a corporation, a copy of such order (or notice) shall be issued to appropriate corporate officers.

"(b) The Administrator may commence a civil action for appropriate relief, including a permanent or temporary injunction, whenever any person—

"(1) violates or fails or refuses to comply with any order issued under subsection (a); or

"(2) violates any requirement of an applicable implementation plan during any period of Federally assumed enforcement more than 30 days after having been notified by the Administrator under subsection (a)(1) of a finding that such person is violating such requirement; or

"(3) violates section 111(e) or 112(c); or

"(4) fails or refuses to comply with any requirement of section 114.

Any action under this subsection may be brought in the district court of the United States for the district in which the defendant is located or resides or is doing business, and such court shall have jurisdiction to restrain such violation and to require compliance. Notice of the commencement of such action shall be given to the appropriate State air pollution control agency.

"(c)(1) Any person who knowingly—

"(A) violates any requirement of an applicable implementation plan (i) during any period of Federally assumed enforcement, more than 30 days after having been notified by the Administrator under subsection (a)(1) that such person is violating such requirement, or

"(B) violates or fails or refuses to comply with any order issued by the Administrator under subsection (a), or

"(C) violates section 111(e) or section 112(c)

shall be punished by a fine of not more than $25,000 per day of violation, or by imprisonment for not more than one year, or by both. If the conviction is for a violation committed after the first conviction of such person under this paragraph, punishment shall be by a fine of not more than $50,000 per day of violation, or by imprisonment for not more than two years, or by both.

"(2) Any person who knowingly makes any false statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under this Act or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this Act, shall upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than six months, or by both.

APPENDIX E

FACILITIES RECEIVING A LETTER QUESTIONNAIRE

PLANT NO.	NAME
0002	Ford Motor Company
0003	Hills Brothers Coffee
0005	Royce Chemical Company
0011	Lever Brothers
0013	Universal Oil Chemical Division[1]
0031	Bergen Asphalt
0038	The Celotex Corporation
0039	Barclay Industries
0040	Curtiss-Wright Corporation
0042	Unifoil Corporation
0047	H & S Chemical
0049	Omni Chemical Corporation
0050	S. A. Schonbrunn Company
0053	Tenneco Chemical Inc. - Interm. Div.
0054	Fleming Joffee Jentra
0055	Finetex Inc.
0056	Great Eastern Textile
0057	Tenneco Chemicals
0012	Public Service Electric
0037	Burroughs Corp.

(1) As per phone conversation with G. Marciante, EPA Region II, on June 9, 1976, this letter sent to a new plant location in Middlesex on 6/22/76, and was later returned unclaimed. Plant 0117, as appearing in the current master file for Middlesex County, represents the existing NEDS information for this facility at the beginning of the project.

PLANT NO.	NAME
0022	National Gypsum Company
0023	Pacemaker Corporation
0025	McGraw Edison
0026	Berhien-Siegel
0027	Pulverising Services
0028	South Jersey Asphalt
0029	Burlington Asphalt
0032	Bituminous Seal Coating
0034	Conwed Corporation
0036	Meredith Paving Company
0035	C. E. Glass
0033	Church Brick Company
0024	Stephan Chemical Company
0031	Trap Rock Ind.
0037	Hercules Inc.

PLANT NO.	NAME
0006	RCA Corporation
0008	Gulf & Western
0010	Allied Chemical Company
0012	Monsanto Company
0023	Aluminum Shapes Inc.
0028	Certain Teed
0031	Clement Coverall Company
0032	CE Min of Comb. Eng.
0035	Continental Can Co.
0037	Campbell Soup (100 Mkt. St.)
0038	Campbell Soup (Del. 8 Cooper St.)
0039	J. F. Kennedy Memorial Hospital
0044	Logistics Inc.
0045	National Portland Cement
0046	Kewawee Oil Company
0049	Mathey Bishop
0052	Phillips Petroleum
0055	Sherwin Williams Company
0061	West Jersey Hospital
0062	Western Craft Inc.
0064	Union Paving
0065	Morie J. & Son
0066	Corson G. & W.H.
0068	Pettinos, G. F. Inc.

PLANT NO.	NAME
0002	Federated Metal
0003	E. I. Dupont
0008	Pabst Brewery
0010	Ashland Chemical
0011	Essex Chemical
0012	Pitt Consol. Chemicals
0016	Public Service Electric
0031	VA Hospital
0033	Flockhart Foundry
0035	Barth Smelting & Refining
0037	Excell Corporation
0038	Bergen Machine & Tool
0040	S. J. Groves & Sons
0039	Bierman-Everett Foundry
0041	Newark Asphalt
0042	Nimco Shredding
0043	Kern-o-mix
0044	Fluid Chemical(1)
0045	Bayonne Barrel & Drum
0046	Keystone Metal
0047	Orange Quarry
0048	New Jersey Packaging
0049	Westinghouse Electric
0050	Farmers Feed Co. of New York
0051	Barnet Foundry & Machine Co.
0052	Ronson Metals Corporation
0053	R. A. McDonough & Company
0055	Walter Kidde & Company
0057	Belleville Finishing Corp.

(1) Moved to Ocean County

PLANT NO.	NAME
0058	Ottex Inc.
0059	Orbis Prop Corporation
0060	Stanley Works Tool Division
0061	Tenax Finishing Prod. Company
0062	Shelton Mfg. Company
0063	Edson Tool & Mfg. Company
0064	Bee Chemical Company
0065	Honig Chemical & Proc. Corp.
0056	Flexon Industries Inc.
0066	Peerless Tube Company
0067	Benjamin Moore & Company
0068	Reddaway Mfg. Company
0069	Wondura Products Inc.
0070	Port of New York Authority
0071	Sun Oil Company
0073	J. Wiss & Sons Company
0074	Max Marx Color & Chemical Co.
0075	Otto B. May, Inc.
0076	Inland Chemical
0077	Englehard Industries
0085	Texaco Inc.
0072	National Starch & Chemical

PLANT NO.	NAME
0001	Air Products Chemicals Div.
0002	E. I. Dupont
0004	Texaco
0006	Mobil Oil Corporation
0015	H. G. Enderlein Company
0022	Del Monte Company
0023	Henry, E. P. & Sons
0024	Grays Perry Brick Company
0025	Gulf Oil Company
0028	Penwalt Corporation
0033	The Standard Oil Co. of Ohio
0035	Ekco Products Inc.
0036	Union Paving
0037	B. P. Oil Company

PLANT NO.	NAME
0003	Bestfoods, Div. CPC Intl.
0004	Warren Bros.
0005	Standard Brands
0007	Alco Grayure
0009	Monsanto Company
0010	Koppers Inc.
0011	Kearney Smelting & Refining Co.
0012	American Can Company
0018	Colgate - Palmolive
0043	H. B. Reed & Co. Inc.
0044	International Salt
0046	Trumbull Asphalt Company
0048	Crown, Cork & Seal Company
0049	Electric Casting Corporation
0050	Lightolier, Div. Corona Lighting
0051	Radial Casting Company
0052	Tech. Plastic Extruders
0053	Importers Services
0054	Scope Industries
0055	Ferguson Propeller & Recond.
0056	Garden State Converters
0057	Stone Container Corporation
0058	Staley Chemical Division
0059	Theobald Ind.
0060	Congoleum Ind.
0061	Millmaster Onyx Chem Div.
0062	Diamond Alkali Company
0063	RCA Corporation
0064	Duro-Test Corporation
0065	Arvey Corporation
0066	National Oil Recovery

PLANT NO.	NAME
0067	EFKA Plastic Corporation
0068	Inland Steel Co.
0070	N. L. Ind. Baker Prod. Oil Div.
0071	ICI United States Inc.
0072	El Dorado Terminal Corporation
0073	Gordon Terminal Service Company
0075	Alpha Metals Inc.
0076	Mallinckrodt Inc.
0077	Amerada Hess Corp.
0078	Nu-Method Dyeing & Processing
0079	Prolerized, Shiabo, Linden Ave.
0080	Greenwich Mills Inc.
0081	BASF Wyandote
0082	General Foods Corporation
0074	Exxon
0013	Texaco
0014	Worthington Marine
0021	Public Service Electric[1] Hudson
0022	Public Service Electric[1] Kearny
0023	Public Service Electric[1] Marion
0024	U. S. Gypsum dba Flinkote
0069	Western Electric Company

[1] As per telephone conversation with Mr. M. Kantz, the Hudson and Marion stations were combined as one facility.

PLANT NO.	NAME
0001	New Jersey Power Light
0002	Riegel Paper Corporation
0003	Trap Rock Ind.
0004	Riegel Products Corporation
0005	Riegel Products - Riegelsville Mill

PLANT NO.	NAME
0018	Homasote Company
0020	Nearpara Rubber
0023	Metal Litho Int.
0024	General Motors Corp. Fisher Body Div.
0026	Mercer City Asphalt
0027	Circle F, Wire & Plastics Div.

PLANT NO.	NAME
0002	U. S. Metals
0004	Tenneco Chemical Company
0009	Stauffer Chemical Company
0011	FMC Corporation
0014	Hatco Chemical Company
0015	Air Products & Chemicals
0016	E. I. Dupont
0017	Hercules Inc.
0018	Dupont Photo Products
0021	Shell Oil
0023	Anlin Company of New Jersey
0024	N. L. Industrial
0025	Ford Motor Company
0027	Kimberly Clark
0028	Delco Remy
0029	Cities Service
0031	Union Carbide
0033	Tenneco Chemicals
0035	Metro-Containers-Kraft Company
0049	Manzo Contracting Company
0050	Penwalt Corporation
0051	Quaker Oats Company
0052	J. Walter Corporation (Celotex)
0054	Federal Chemical
0056	TPCO
0058	Chamberlin & Barclay
0059	Morton Salt
0060	South River Sand
0061	Inland Container
0063	A. W. Brands Inc.
0064	Edison Plastics Company
0065	C. Pfizer Company
0066	Outerbridge Terminal Inc.
0068	Richardson Company

PLANT NO.	NAME
0069	Bird & Son Inc.
0070	Inmont Corporation
0071	Korelle Ind.
0073	Economic Laboratory Inc.
0074	Reichhold Chemicals
0076	New Jersey Steel & Structural
0077	Witco Chemical Corporation
0078	Russell-Stanley Corporation
0080	Twin Bridge Asphalt Company
0081	Commonwealth Refining Company
0082	Prospect Ind. Corporation
0083	Beecham-Massengill Pharm. Div.
0084	United Steel Deck
0085	Alcan Aluminum Corp.
0086	Philips Petroleum Company
0087	American Oil Company
0088	Alpha Associates
0089	Ashland Chemical Company
0090	American Can Company
0091	Fedders Corporation
0092	Mobil Chemical Company
0093	American Can Company
0096	Reynolds Metal Company
0097	So. Brunswick Asphalt Inc.
0098	Staseal (Whitehead Aven., So. River)
0099	National Can Company
0100	National Can Corporation
0101	Rhodia Inc.
0102	GA Transportation
0103	American Standard
0107	GRJ Ind.
0108	Hexcel Corporation
0109	Stabilized Pigments Inc.

PLANT NO.	NAME
0111	Interpace
0112	N. American Metal & Chemical
0114	Stauffer Chemical Co.
0115	Walker Gordon Lab.
0116	BASF-Wyandotte
0020	C. H. Supthen Inc.
0021	E. Schroth
0024	Three M
0025	Penwalt Corporation
0026	Seacoast Products

PLANT NO.	NAME
0008	Hercules Inc.
0017	Mt. Hope Materials
0019	Redi-Crete Corporation
0020	Interpace
0021	Braen Ind.
0022	Leslie Company
0023	National Gypsum
0024	Philadelphia Quartz
0027	Rowe International
0028	Flintkote
0030	Intercounty Paving
0032	Keuffel & Esser Co.
0033	Thatcher Glass Mfg.
0034	Amerace Corporation
0035	Addressograph Multigraph
0018	Flanders Asphalt Const.

PLANT NO.	NAME
0012	Manzo Contracting Co.

PLANT NO.	NAME
0002	Merk Chemical
0006	Advance Dye Works
0007	Allied Textile
0008	Laytham Foundry
0009	Warren Bros.
0010	Allied Chemical
0011	Whippany Paper
0013	Pantasote
0022	Pilot Woodworking
0023	Preakness Asphalt
0024	Passaic Asphalt
0025	Passaic Crushed Stone
0026	Bay State Milling
0027	New Jersey Foundry
0028	Greater New York Box Company
0029	D. Stamato Company
0031	Fritzeche-Dodge & Olcott
0033	S. B. Thomas
0037	Union Carbide
0039	Brassbestos Mfg.
0040	American Polymers
0042	Dart Ind. White Metal Mfg.
0043	Shulton Ind.
0044	Standard Packaging Corporation
0045	Sun Chemical Corporation
0048	Missbrenner Prints Inc.
0049	Riverside Novelty Printers
0050	Bryant Industries Corp.
0051	Duro Test Corporation
0052	Continental Can Co. (Wayne)
0053	Congress Textile Printers
0054	Roma Printing & Finishing
0055	Malan Dyeing & Finishing

PLANT NO.	NAME
0056	Continental Can Company (Passaic)
0057	Perennial Print Corporation
0058	Pallman Pulverizers Company
0060	North American Chem. Corp. (Mercer St.)
0061	North American Chem. Corp. (Keen St.)
0062	Continental Can Company
0063	Combinates Corporation
0064	Givadan Corporation
0065	Inmont Corporation
0067	National Distillers & Chem. Corp. (dba Inwood Knitting Mills)
0068	Ashland Oil
0069	Witco Chemical Company
0070	J. Mansville Prod.
0071	Royal Finishing Corporation
0072	Leader Dyeing & Finishing Co.

PLANT NO.	NAME
0002	E. I. Dupont (Carney)
0005	E. I. Dupont (Deepwater)
0012	Mannington Mills

PLANT NO.	NAME
0001	American Cyanamid
0002	Uniset Asphalt
0003	J. Manville
0012	Trap Rock Ind.
0014	Dock Watch Quarry Pit
0015	Fanwood Crushed Stone
0016	Houdaille Construction Mat.
0017	Princeton Chemical Research
0018	3M Mineral Prod.
0019	Anthony Ferrante & Sons
0021	Inmont Corp.

PLANT NO.	NAME
0004	Farber White Limestone Co.
0007	Sussex Road Materials

PLANT NO.	NAME
0003	Humble Oil
0007	E. I. Dupont (Linden)
0009	Merk Chemical Division
0010	National Starch
0012	Reichhold Chemical
0014	Tenco
0016	Garwood Asphalt
0019	American Can
0022	Singer Company
0033	Mobil Oil
0034	U. S. Gypsum
0035	Volco Brass & Copper
0036	American Plywood
0037	Texaco Inc.
0038	American Cynamid
0039	Chemical Control Corp.
0040	B. P. Oil
0041	Buckeye Pipe Line
0042	Chelsea Industries
0043	Dri Print Foiles
0044	G.A.F. Corporation
0045	Inmont Corporation
0047	Houdaille Const. Materials
0048	Polyplaste United
0049	Shering Corporation
0052	Dolly Madison Kitchens
0053	Puralator
0054	Sealol Inc.
0056	Cooper Alloy Corporation
0057	Rheem Mfg. Company
0058	Koppers Company
0059	Dock Resins Corporation

PLANT NO.	NAME
0060	Reheis Chemical Company
0061	Millmaster Chemical Div.
0062	Housing Authority-City of Elizabeth
0063	Elizabeth Board of Ed. New George Washington
0064	Exxon Chemical Corporation
0065	Universal Newark Container

PLANT NO.	NAME
0002	Baker Chemical
0007	Ashbury Graphite Mills
0008	Flock Ind.
0011	Pearsall Chemical Company
0012	Warren Paving
0013	Warren Limestone

APPENDIX F

FACILITIES RECEIVING ORDERS TO COMPLY WITH THE LETTER QUESTIONNAIRE

	Order No.
Mr. K. Krennan Royce Chemical Co. E. Rutherford, N.J.	60135
Mr. Cupo Great Eastern Textile Print. Co. Mahwah, N.J. 07430	60137
Plant Manger Burroughs Corp. Park Ridge, N.J.	60138
Mr. M. Kinsey Bernhien-Siegel Riverside, N.J.	60139
Mr. A.L. Hobbie Pulverizing Services Moorestown-Lenola, N.J.	60140
Mr. Zebrowski South Jersey Asphalt Riverside, N.J.	60141
Mr. Narozanick Burlington Asphalt Lumberton, N.J.	60142
Mr. L.O. Mynott Allied Chemical Co. Camden, N.J.	60143
Mr. Collins Aluminum Shapes, Inc. Delair, N.J.	60144
Mr. Clement Clement Coverall Co. Camden, N.J.	60145
Mr. Brown Campbell Soup Co. Camden, N.J.	60146
Mr. Brown Campbell Soup Co. Camden, N.J.	60147
Mr. Woelpper National Portland Cement Gloucester, N.J.	60148

		Order No.
	Mr. Sokoloff Prospect Industrial Corp. Piscataway, N.J.	60188
	Mr. Fetsko So. Brunswick Asphalt, Inc. Dayton, N.J.	60189
	Mr. Ortleb Hexcel Corp Sayersville, N.J.	60190
	Mr. B. Harris Seacoast Products Port Monmouth, N.J.	60191
*	Mr. G. Sloan Braen Industries Riverdale, N.J.	60193
	Mr. A. W. Richart Leslie Company Parsippany, New Jersey	60194
	Mr. G. T. Siegel Addressograph Multigraph East Hanover, N.J.	60196
	Mr. Fulmer Warren Brothers Co. Prospect Park, N.J.	60197
	Mr. J. Hardwick Pantasote Co. of N.Y., Inc. Passaic, N.J.	60198
	Mr. Platter Passaic Crushed Stone Bloomingdale, N.J.	60199
	Mr. Edelman Greater New York Box Co. Clifton, N.J.	601100
	Mr. William Simon, President Brassbestos Mfg. Co. Paterson , N.J.	601101
	Mr. Stefanic American Polymers, Inc. Paterson, N.J.	601102

* Doing business as Riverdale Quarry

	Order No.
Mr. J. Young West Jersey Hospital Voohees, N.J.	60149
Mr. Russomanno Bayonne Barrel & Drum Newark, N.J.	60150
Mr. Hood Barnett Foundry & Machine Irvington, N.J.	60151
Mr. McDevitt R.A. McDonough & Co. Orange, N.J.	60152
Mr. Martin Weinberg Ottex Inc. Fairfield, N.J.	60153
Mr. Joseph Prather Edson Tool & Mfg. Co. Belleville, N.J.	60154
A. Folkman Flexon Industries, Inc. Belleville, N.J.	60155
Mr. F.W. Barton Reddaway Mfg. Co. Newark, N.J.	60156
Mr. Henry Henry E. P. & Sons Woodbury, N.J.	60157
Mr. H. Randolf The Standard Oil Co. of Ohio Paulsboro, N.J.	60158
Mr. Fulmer Warren Brothers Secaucus, N.J.	60159
Mr. Trincellit Standard Brands, Inc. Hoboken, New Jersey	60160
Mr. Taglieri Alco Grayure Hoboken, N.J.	60161

		Order No
	Mr. Gavinno Cossa Plant Foreman Koppers Co. Metal Products Div. Cranford, N.J.	60162
	Mr. M. Rothschild Kearny Smelting & Refining Co. Kearny, N.J.	60163
*	Mr. R. Lesnick Alpha Metals, Inc. Jersey City, N.J.	60164
	Mr. Landan Electric Casting Corp Kearny, New Jersey	60165
	Mr. Weinstein Lightrolier Div. Corona Lighting Jersey City, N.J.	60166
	Mr. Supko Radial Casting Co. E. Newark, N.J.	60167
	Mr. E. Matz Stone Container Corp North Bergen, N.J.	60168
	Mr. Schnitzer Theobald Ind. Kearny, N.J.	60169
	Mr. Adams Arvey Corp Jersey City, N.J.	60170
	Mr. Maizus National Oil Recovery Bayonne, New Jersey	60171
	Mr. Carr ElDorado Terminal Corp Bayonne, N.J.	60172
*	Mr. M.C. Sohl Alpha Metals Inc. Jersey City, N.J.	60173

* Two letters were sent to the same company

	Order No.
Mr. Cooper Cooper Alloy Corp. Hillside, New Jersey	601117
Mr. Gavinno Cossa Plant Foreman Koppers Co. Cranford, N.J.	601118
Mr. F.W. Weiss Warren Paving Stewartsville, N.J.	601119
Mr. J. Perrucci Warren Limestone Oxford, New Jersey	601120

	Order No.
Mr. Zimmerman Prolerized Schiabo Jersey City, N.J.	60174
Mr. Reidy Greenwich Mills, Inc. Secaucus, N.J.	60175
Mr. E. F. Whitely Riegel Products-Riegelsville Mill Riegelsville, N.J.	60177
Mr. P D. Dowen Metal Litho Int. Trenton, N.J.	60178
Mr. J. Fitzmanric Circle F. Wire & Plastics Div Trenton, N.J.	60179
Mr. Biertuempel Hatco Chemical Co Ford, New Jersey	60180
Mr. J.S. Henry Inland Container Co. Spotswood, N.J.	60182
Mr. O'Conner A.W. Brands, Inc. Carteret, N.J.	60183
Mr. Contey Edison Plastics Co. South Plainfield, N.J.	60184
Mr. Londres Korelle Ind., Inc. Avenel, N.J.	60185
Mr. Zilli New Jersey Steel & Structural Corp Sayreville, N.J.	60186
Mr. Carmine K. Dellapietro Twin Bridge Asphalt Co. Woodbridge, N.J.	60187

	Order No.
Mr. Avakian Roma Printing & Finishing Paterson, New Jersey	601103
Mr. Spagnola Perennial Print Corp. Paterson, N.J.	601104
Mr. Yanker North American Chemical Co. Paterson, N.J.	601105
Mr. Furler Continential Can Co. Patterson, N.J.	601106
Mr. G. Cerone, Vice President Combinates Corp. Passaic, N.J.	601107
Mr. Schuster Ashland Oil - Warren Brothers Div. Propsect Park, N.J.	601108
Mr. Anderson Three-M Industrial Mineral Products Montgomery, N.J.	601109
Mr. Ed Hartl Anthony Ferrante & Sons Bernardsville, N.J.	601110
Mr. J. Turco Sussex Road Materials Andover, N.J.	601111
Mr. Izzo Volco Brass & Copper Kenilworth, N.J.	601112
Mr. Robert Day Chemical Control Corp. Elizabeth, N.J.	601113
Mr. Scharf Dolly Madison Kitchens Springfield, N.J.	601115
Mr. Masarik Purolator Rahway, N.J.	601116

	Order No.
Mr. Kernan Kern-O-Mix South Orange, N.J.	60176
Mr. J. Growney J. Wiss & Sons, Co. Newark, N.J.	60181
Mr. C.R. Long Gulf Oil Co. Philadelphia, Pa.	60192
Public Service Electric & Gas Co. Jersey City, N.J.	60195
Mr. Charles Friedman Baker Sealants & Coatings Jersey City, N.J.	601114
Mr. Rafalko Kimberly Clark Perth Amboy,N.J.	601121
Mr. K. Kiesling BASF-Wyandotte Cranberry Jamesburg, N.J.	601122
Mr. Cleveland Universal Oil Chemical Div. Zayreville, N.J.	601123
Plant Manager Flanders Asphalt Const. Co. Mount Olive, N.J.	601124
Plant Manager Ashland Oil Co. Secaucus, N.J.	601125
R.S. Whaley Fanwood Crushed Stone Watchung, N.J.	601126
Plant Manager Uniset Asphalt Co. Watchung, N.J.	601127

LIST OF PLANTS IN NEW JERSEY

COUNTY	PLANT-ID	NAME-AND-ADDRESS	CONTACT
0300	0001	ABEX CORP VALLEY RD MAHWAH 07430	HENNING
0300	0002	FORD MOTOR CO STATE HGY 17 MAHWA 07430	D CARRATELLO
0300	0003	HILLS BROS COFFEE 535 RIVER RD 07020	HONNEL
0300	0004	BENDIX CORP ROUTE 46 TETERBORO 07608	HOOPER
0300	0005	ROYCE CHEM CARLTON AVE E RUTHERFORD	K BRENNAN
0300	0006	LOWE PAPER CO RIVER ST RIDGEFIELD 07657	RUSHBY
0300	0007	PENICK CO 540 NEW YORK AV LYNDHURST07071	TRIPPETT
0300	0008	SANDOZ CHEM FAIR LAWN AV 3RD ST FAIRLAWN	WALLACE
0300	0009	STEPAN CHEM 100 W HUNTER MAYWOOD 07607	SWANSON
0300	0010	DIAMOND SHAMRK CHEM 13ST BERRY AV 07072	CONT MGR
0300	0011	LEVER BRO 101 RIVER RD EDGEWATER 07022	CARLSON
0300	0012	PUB SERV ELEC BERGEN STA VITORIA TER 076	57 JAMES
0300	0014	GARDEN STATE PAPER 950 RIVER DRIVE 07026	MISKO
0300	0015	MARCAL PAPER MILLS INC E PATERSON 07407	HARRIS
0300	0029	PINEWOOD SAWDUST,PURCELL CT,MOONACHIE	FAEHNER PRS
0300	0030	LITTLE FERRY ASPHLT,9 REGEN TPKE LTL FRY	SLOANE
0300	0031	BERGEN ASPHALT,W FORT LEE RD,BOGOTA	HILLER
0300	0035	BENTEX MILLS 450 MURRAY HILL PKWAY	DAVENPORT
0300	0037	BURROUGHS CORP 76 PARK AVE PARK RIDGE	N F NAUMOV
0300	0038	J WALTER CORP CELCTEX RIVER RD EDGEWATER	J.J.MCKENNA
0300	0039	BARCLAY INDUSTRIES 65 INDUSTRIAL ROAD	R. BROWN
0300	0040	CURTISS-WRIGHT CORP. 1 PASSAIC ST.WOODRG	CAGLIOSTRO
0300	0041	PILOT WOODWORKING CO 105 AMOR AV CARLSTA	BORCO
0300	0042	UNIFOIL CORP 20-21 NAGARAW RD FAIR LAWN	BOEHLER
0300	0043	FIELDS PLASTICS& CHEM 199 GARIBLACI AV	SCHNUR
0300	0047	H&S CHEMICAL WALLINGTON NJ	PLANT MANAGER
0300	0049	CHAI CHEM CORP MEADOW RD LYNDHURST	KATZ
0300	0050	S A SCHONBRUNN CO GRAND & RUBY AV	MAZZANTI
0300	0051	INMOT CORP 200 GREGG ST LODI	NOYER
0300	0052	SAVANT FINISHING CORP 59 GRAND ST	FREITAG
0300	0053	TENNECO CHEM INC INTERN DIV 250 RIVER DR	DEGE
0300	0055	FINETEX INC 418 FALMOUTH ST ELMWOOD PARK	H W ALBRECHT
0300	0056	GREAT EASTERN TEXTILE 30 IND. AV MAHWAH	CUPO
0300	0057	TENNECO CHEMICALS 109 KERO RD CARLSTADT	MITTEN
0660	0001	KAISER GYP 2700 BURLNGTON AV DELANCO	CAPRVE
0660	0003	PUB SER ELE W BROAD & DEVLIN BURLNGTON	JAMES
0660	0005	TENNECO PLAS BEVERLY RD BURLNGTON 08016	QUIST
0660	0006	MCGUIRE SCHOOLS MCGUIRE	SUPERINTENDENT
0660	0007	CFEI STEEL CORP,2ND AV,ROEBLING 08554	CRIMMINS
0660	0008	U S PIPE E PEARL ST BURLINGTON 08016	CARROLL
0660	0009	HOEGANAES RIVER RD TAYLORS LN RIVERTON	ROEHER
0660	0010	GRIFFIN PIPE 1100 W FRONT FLORENCE 08518	BROWN
0660	0012	MCGUIRE AIR FORCE BASE, WRIGHTSTN 08641	J MACQUBRAY
0660	0014	MAIN POST-FORT MONMOUTH 07703	S HERMAN
0660	0019	ENTOMOLOGY RES STA FLYNN AV PARK BLVD	

LIST OF PLANTS IN NEW JERSEY

COUNTY	PLANT-ID	NAME-AND-ADDRESS	CONTACT
0660	0022	NATIONAL GYPSUM CO RIVER RD BURLINGTON	J K LAWSON
0660	0023	PACEMAKER CORP., RIVER RD.,WASH'TON TWP	C J MUELLER JR.
0660	0024	STEPAN CHEM CO. 4TH ST. BORDENTOWN	R MCDONOUGH
0660	0026	BERNHIEN-SIEGEL,ST MIHIEL DR,RIVERSIDE	M KINSEY
0660	0027	PULVERIZING SERVICES 500 NEW ALBANY RD	A C HOBBIE
0660	0028	SC JERSEY ASPHALT,300 ADAMS ST,RIVERSIDE	ZEBROWSKI
0660	0029	BURLINGTON ASPHALT,MAPLE AVE,LUMBERTON	NAROZANICK
0660	0030	IONAC CHEMICAL CO BIRMINGHAM RD PEMBERTO	JOAL HOMAN
0660	0031	TRAP ROCK IND. SPRINGFIELD TWP	
0660	0032	BITUMINOUS SEAL COATING RT206 TABERNACLE	ROBERT BAKET
0660	0034	CONWED CORP DELANCO RD DELANCO NJ	HE DYVIG
0660	0035	CE GLASS 700 UNION LANDING RD CINNAMINSN	MR KEN KNAPP
0660	0036	MEREDITH PAVING,CINNAMINSON TWP	A K ZORN
0660	0037	HERCULES INC NECK ROAD PO BOX 247	
0660	0038	HOOKER CHEMICAL PO BOX 456 BURLINGTON	J T TALLEY
0660	0080	FORT DIX, WRIGHTSTOWN, NJ 08640	A W HARMAN
0740	0001	MACANDREWS&FORBE 3DEJEFFERSON CMDEN08104	BH GOMINGER
0740	0002	GAF CO.CHARLES & WATER GLOUCESTER 08030	E J FLOOD
0740	0003	GEORGIA PAC FT CF DEROUSSE DELAIR 08110	GIORDINO
0740	0004	FLINTKOTE 1101 S FRONT ST CAMDEN 08101	GILLAN
0740	0005	OWENS CORNING 100 JACKSON RD BERLIN	THOMAS
0740	0006	RCA CORP FRONT&COOPER CAMDEN 08102	EF TRYTKO
0740	0007	KOHNSTAMM CO 31ST AND LEMUEL CAMDN 08105	LEIDENROTH
0740	0008	GULF & WESTERN FOOT WATER ST.GLOCHESTER	DONALD R.BAKER
0740	0009	HOLLINGSHEAD CO 16ANDMICKLE CAMDEN 08105	DAVIS W P
0740	0010	ALLIED CHEM 1100 LINE ST CAMDEN 08103	MATHES
0740	0011	DE SOTO INC 8600 RIVER PENNSAUKEN 08110	J PETRIE
0740	0012	MONSANTO CO 1500 PINE ST CAMDEN 08103	J E ELDRIDGE
0740	0020	CAMDEN LIFE CO FRONT &MECHANIC CMDN08103	B.HINELINE
0740	0021	CAMDEN DPW COURT HOUSE CAMDEN 08101	N ANGELASTRO
0740	0022	ALNORT INC 2430 BROADWAY CMDN 08104	ALBUS
0740	0023	ALUMINUM SHAPES INC 9000 RIVER, DELAIR	P COLLINS
0740	0024	EDGEWOOD BITUMINOUS PROD ATCO 08004	PACE
0740	0025	C OFSORTE ASS INC BOX 127 ATCO 08004	PALLADINO
0740	0026	AMERADA HESS CORP 1 DERCUSE AVE PENNSAUK	BUSKE
0740	0027	ATLANTIC RICH FT OF WATER ST GLOVS CTY	STONER
0740	0028	CERTAIN-TEED INS C FREEDOM-N BROOKLYN RD	HEIM
0740	0029	CHAMPION AUTO GEN GRAND & HIGH STS BLKWD	TALUACCHIO
0740	0030	CITIES SERVICE OIL P O BOX 1261 CAMDEN	COLLINS
0740	0031	CLEMENT COVERALL CO PO BOX 557 CAMDEN	CLEMENT
0740	0032	C E MIN OF COMB ENG 825 HILTON RD PENNS.	MCKINLEY
0740	0033	CONCORD CHEM 17 & FEDERAL STS CAMDEN	REXON
0740	0034	COOPER HOSP.& & STEVENS ST CAMDEN	HUGIL
0740	0035	CONTINENTAL CAN 1500 IND HWY PENNSKN	JUNDT
0740	0036	ATLAS BLDG SYS PO 245 MARLTON NJ	DEPALMA

LIST OF PLANTS IN NEW JERSEY

COUNTY	PLANT-ID	NAME-AND-ADDRESS	CONTACT
0740	0037	CAMBELL SOUP 100 MARKET ST CAMDEN NJ	BROWN
0740	0038	CAMBELL SOUP CO DELAWARE & COOPER STS	BROWN
0740	0039	KENNEDY JF MEMORIAL HOSP 18 LAUREL RD	H GRASSI
0740	0040	LAFFERTY ASPH MRLTN GIBSBRO RD VORHEES	J LAFFERTY
0740	0041	FORMIGLI CORP PLNT 1 PO BX F BERLIN	J MARKEY
0740	0042	TRAP ROCK IND LAUREL AVE KINGSTON	G GIRARD
0740	0043	FORMIGLI CORP PLNT 2 ATLANTIC AVE BERLIN	J MARKEY
0740	0044	LOGISTICS INC GLOUCESTER PK BARRINGTON	J GIMBEL
0740	0045	NATL PRTLND CMT LWR LNDING RD BLCKWOOD	WOELPPER
0740	0046	KEWANEE OIL CO FT OF WATER ST GLCSTR	D.A.WILSON
0740	0047	AJ HOSP AT ANCORA	RICCA
0740	0048	JOHNS MANVILLE CORP PO BOX 130 BERLIN	P J GLADECK
0740	0049	MATTHEY BISHOP PINEY HOLLOW RD WINSLOW	R DE CICCO
0740	0050	MER REFRACTORY PC BCX 74 WINSLOW	J SEARS
0740	0051	NATL IND CONTNER 1600 NATL HWY PENNSAUKN	R HERINGER
0740	0052	PHILLIPS PETRL PO BOX 31	H BARNES
0740	0053	WEEKS ASPHALT CC 426 THOMAS AVE	E WEEKS
0740	0054	OSBORN CHEM INC 820 SHERMAN AVE PENNSKEN	R KERR
0740	0055	SHERWIN-WILLIAMS CC FOSTER AVE	H.B.WILLIAMS.JR
0740	0056	TRIO TIRE SERV INC 280 WHITE HORSE PK	M SMILER
0740	0057	STATE SALVAGE CO 16 ANC WAYNE	S GIOSTEIN
0740	0058	SUPER TIRE ENG CO BCX 475 CAMDEN	L HOUGH
0740	0059	SUPERIOR RECORD PRESSING CO 900 KEN BLVD	V DEROSA
0740	0060	W JERSEY HOSP N DIV RT EPHRAM P ATLANTIC	R GOUTH
0740	0061	W JERSY HOSP E DIV EVESHAM RD VOORHEES TW	J YOUNG
0740	0062	WESTERN KRAFT INC INTERSTATE IND PK	J F BARK
0740	0063	WEYERHAEUSER 100 E GLOUCESTER PK	J JACKSON
0740	0064	UNION PAVING RIVERSIDE RD PENNSAUKEN	
0740	0065	MORIE J S PINEY HOLLOW RD WINSLOW TWP	PLANT MANAGER
0740	0066	CORSON,G&W.H. MARLTON RD,GIBBSBORO	
0740	0067	MORIE, J.S.,PINEY HOLLOW RD, WINSLOW TWP	J. MORIE PRS
0740	0068	PETTINOS,G.F.,INC.,NEW FREEDM RD,WMSTOWN	L. PETTINOS
0740	0069	PETTINOS,G.F.,INC.,PENBRYN RD,WINSLOW TW	L. PETTINOS
0780	0064	U.S.COAST GUARD TRNG CNTR-CAPE MAY N.J.	LT.H.WALTER
1380	0001	P BALLANTINE 57 FREEMAN ST NEWARK 07101	MOORE
1380	0002	FEDERATED MET 150 ST CHARLES NEWARK07105	SAVAGE
1380	0003	E.I.DUPONT	M OTT
1380	0004	HOFFMANN LAROCHE ROCHE PARK NUTLEY 07110	KUCKS
1380	0005	TRI COUNTY ASPHALT BEAUFORT AV ROSELAND	
1380	0006	U S PIPE 565 N ARLINGTON AV E ORANGE07017	STEINBACH
1380	0007	A GROSS 652 DOREMUS AV NEWARK 07105	FEDOWITZ
1380	0008	PABST BREW 400 GROVE ST NEWARK 07106	BLAIR
1380	0009	ANHEUSER BUSH 200 US HWY NEWARK 07101	BEERS
1380	0010	ASHLAND CHEM 400 DOREMUS AV NEWARK 07105	MINOTT
1380	0011	ESSEX CHEMICAL 330 DOREMUS AV NEWARK	ZONIS

LIST OF PLANTS IN NEW JERSEY

COUNTY	PLANT-ID	NAME-AND-ADDRESS	CONTACT
1380	0012	PITT CONSOL CHEM 191 DORREMUS NEWARK	OCONNELL
1380	0013	HOUDAILLE CONST MT CLOVE RD MONTCLAIR MT	HENDRICKSON
1380	0014	PUBLIC SER EL 155RAYMOND BLVD NEWARK 071	01 JAMES
1380	0015	CELANESE PLASTICS 290 FERRY ST NEWARK 07	105 BERAN
1380	0016	PUB SERV ELEC 155 RAYMOND BLVD NEWARK 07	F LIBRIZZI
1380	0033	FLOCKHART FOUNDRY 79 POLK ST NEWARK	FRANK WESSOL
1380	0034	ROBERT BOSSERT & CO.10 LISTER NEWARK	BOSSERT
1380	0035	BARTH SMELTING&REFIN 99-129CHAPEL NEWARK	KEYSER
1380	0036	S.B.PENICK (CPC) 158 MT.OLIVET AV.NEWARK	A.D.GRANT
1380	0038	BERGEN MACHINE & TOOL, BELLEVILLE 07109	FERRIE
1380	0039	BIERMAN-EVERETT FOUNDRY, IRVINGTON	JULIUS
1380	0040	S J GROVES & SONS, IRVINGTON	MONA MARA
1380	0041	NEWARK ASPHALT,MCCARTER HWY,NEWARK 07104	NAPP
1380	0042	NIMCO SHREDDING,DOREMUS AVE,NEWARK 07105	B BAKER
1380	0043	KERN-O-MIX, SOUTH ORANGE	KERNAN
1380	0045	BAYONNE BARREL & DRUM, NEWARK	RUSSOMANNO
1380	0046	KEYSTONE METAL,PEDDIE ST,NEWARK	BECK
1380	0047	ORANGE QUARRY,EAGLE ROCK AVE,WEST ORANGE	KNOTT
1380	0048	NEW JERSEY PACKAGING, FAIRFIELD	HEIN
1380	0049	WESTINGHOUSE ELECTRIC CORP. BLOOMFIELD N. J.	F J HANZL
1380	0050	FARMERS FEED CO OF NY 468 REYMOND BLVD	STEHLIN
1380	0051	BARNETT FNDRY & MACHINE CO 536 LYONS AVE	HOOD
1380	0052	RONSON METALS CORP 55 MANUFACTURERS PL	ARONSON
1380	0053	R A MCDONOUGH & CO 350 WASHINGTON ST	MCDEVITT
1380	0054	MCGRAW EDISON CO. 75 BELMONT AV BELLEVIL	W G LIMPERT
1380	0055	WALTER KIDDE & CO MAIN ST BELLEVILLE	FRIESEMA
1380	0056	FLEXON INDUSTRIES,INC BELLEVILLE	A.FOLKMAN
1380	0057	BELLEVILLE FINISHING CORP BELLEVILLE	RUDOLPH
1380	0058	OTTEX INC 55 PASSAIC AV FAIRFIELD	WEINBERG
1380	0059	ORBIS PROD CORP 55 VIRGINIA ST NEWARK	UMANSKY
1380	0060	STANLEY WORKS TOOL DIV 140 CHAPEL ST	DAVIS
1380	0062	SHELTON MFG CO 591 FERRY ST NEWARK	MASTERS
1380	0063	EDSON TOOL & MFG CO 433 CORTLANDT ST	PRATHER
1380	0064	BEE CHEM CO ROLL LEAF DIV 26 CANFIELD RD	A ROTT
1380	0065	HONIG CHEM & PROC CORP 185 FOUNDRY ST	HONIG
1380	0066	PEERLESS TUBE CO. 71 LOCUST AV BLOOMFIEL	REMINGTON
1380	0067	BENJAMIN MOORE & CO 134 LISTER AV NEWARK	G LEHNERT
1380	0068	REDDAWAY MFG CO 32 EUCLID AV NEWARK	BARTON
1380	0070	PORT OF N.Y.AUTHORITY NEWARK AIRPORT	A J BUCKLEY
1380	0071	SUN OIL COMPANY DOREMUS AVE NEWARK	L JENKINS
1380	0072	NATIONAL STARCH AND CHEMICAL	SPECTOR
1380	0073	J WISS & SONS CO 33 LITTLETON AVE	GROWNEY
1380	0074	MAX MARX COLOR & CHEM CO 192 COIT ST	FLEISHER
1380	0075	OTTO B MAY INC 52 AMSTERDAM ST NEWARK	RAY LEEMAN
1380	0077	ENGELHARD INDUSTRIES 429 DELANCY NEWARK	R MICHALEK

LIST OF PLANTS IN NEW JERSEY

COUNTY	PLANT-ID	NAME-AND-ADDRESS	CONTACT
1380	0078	NEWARK CT BD OF ED CHARLTON ST	ASHBY
1380	0079	NEWARK CT BD OF ED 103 BRAGAW AVE	ASHBY
1380	0080	NEWARK BD OF ED 8 HAWKINS AVE	ASHBY
1380	0081	NEWARK BD OF ED 557 SUMMER AVE	ASHBY
1380	0082	NEWARK CT BD OF ED 209 ABINGTON AVE	ASHBY
1380	0083	NEWARK CT BD OF ED 299 CAMDEN ST	ASHBY
1380	0084	NEWARK CT BD OF ED 311 SOUTH 10TH ST	KECKEISEN
1380	0085	TEXACO INC PARAGON DIV 910 DELANCEY ST	BOGGS
1380	0086	CONTINENTAL OIL-COASTAL DIV PORT&COREMUS	E EAGLE
1380	0088	CHASE CHEMICAL CO 280 CHESTNUT 07105	J WRBA
1760	0001	AIR PROD CHEM,BILLINGSPORT RD,PAULSBORO	ZARGE
1760	0002	E I DUPONT GIBBSTOWN 08027	KUSERK
1760	0004	TEXACO RT 130 W DEPTFORD TWNSHIP	WILLIAMS
1760	0005	ROLLINS-PURLE RT 322E BRIDGEPORT	H A STOCKER
1760	0006	MOBIL OIL PAULSBORO BILLINGSPORT&W JEFFERSON RD	PLANT MANAGER
1760	0007	HERCULES INC. MARKET ST. GIBBSTOWN 08027	JD HALLETT
1760	0008	SHELL CHEM CO POBOX 700 WOODBURY 08096	J J DVORAK
1760	0009	OLIN CORP 100THOMAS LANE PAULSBORO 08066	B HINELINE
1760	0014	CAMDEN LIME CO FLOODGATE RD LOGAN TWP	ENDERLEIN
1760	0015	H G ENDERLEIN CO CENTRAL AVE GRENLOCH	HERITAGE
1760	0016	COLUMBIA B C CO LAMBS RD PITMAN 08071	WILBUR
1760	0017	COLONIAL PIPELINE CO MANTUA GR.RD W.DEP.	LIPPI
1760	0018	CONSOLIDATED FOODS CLEARVIEW AVE WDBURY	ZAKRZEWSKI
1760	0019	DEWEY & ALMY 2000 NOLTE DR W DEPTFORD	WILLIAMS
1760	0020	ESSEX CHEM CORP BOX 191 PAULSBORO	MCCANN
1760	0021	ATLANTIC CITY ELEC GIBBSTOWN	HALL
1760	0022	DELMONTE CO LOCKE ST SWEDESBORO	HENRY
1760	0023	HENRY E P & SONS 201 PARK AVE WDBURY	J DARE
1760	0024	GRAYS FERRY BRICK CO WILLIAMSTOWN RD	J POMPANO
1760	0025	GULF OIL CO SALEM PK & JESSUP RD	J MATTEO
1760	0026	MATTEO 1708 US RT 130 & DEPTFORD TWP	M EVANS
1760	0027	SHIELDALLOY CORP DIV OF METALLURG INC NEWFIELD	J BOGEN
1760	0028	PENNWALT CORP CRWN PT RD W DEPTFORD	E ASHBY
1760	0029	ROLLINS ENVR SRVC RT 322 LOGAN TWP	C OTTINGER
1760	0030	SOUTH STATE INC PO BOX 68	J TOYE
1760	0031	TOYE JOSEPH CO 315 BANK ST	M RAY
1760	0032	MONSANTO CO PO BOX 296 BRIDGEPORT	M GRAVER
1760	0034	THUNDERHEAD ASSOC INC BLKWD RD SEWELL	W SAUNDERS
1760	0035	FMCC PRODUCTS INC 838 N DELSEA CLAYTON	G C MARQUEZ
1760	0037	BP OIL INC PAULSBORO TERM P.O.BOX71 PAULSBORO,NJ	M LINDBERG
2240	0001	BERGEN PT BRASS FDY,179 W 5TH ST.	J W KELLER
2240	0002	CAMPBELL FDY CO 800 BERGEN ST 07029	A BEHR
2240	0003	BEST FOODS DIV CPC INTL 99 AVE A 07002	FULMER
2240	0004	WARREN BROS 1611 PATERSON PLANK RD	TRINCELLIT
2240	0005	STANDARD BRANDS INC,16TH RIVERFRNT 07030	

LIST OF PLANTS IN NEW JERSEY

COUNTY	PLANT-ID	NAME-AND-ADDRESS	CONTACT
2240	0006	BETHLEHEM STEEL-HAKA 1301 HUDSON 07030	WL SHRINER
2240	0008	OWENS ILLINOIS,2220 91ST ST N BERGEN	STEINERT
2240	0009	MONSANTO CO PENN AVE KEARNY 07032	D WIDDOWS
2240	0010	KOPPERS INC HARRISON TPK 07032	H HEGEMAN
2240	0011	KEARNEY SMLTNG&REFNG CO 936 HARRISON AVE	M ROTHSCHILD
2240	0013	TEXACO, AVE A AND 1ST ST BAYONE 07002	PL HOLAND
2240	0014	WORTHINGTON MARINE 401 WORTHINGTON 07029	C.F.RIECHERS
2240	0015	GALLO ASPHALT, COUNTY AV SECAUCUS	TELESCO
2240	0016	PUB SER GAS 4TH ST HARRISON	RUFFLE
2240	0017	TURUAN ASPHALT 598ELLEVILLE KEARNY 07032	REILLY
2240	0018	COLGATE-PALM,105 HUDSON,JERSY CTY 07302	SCHMIT
2240	0019	HUMBLE OIL E 22 ST BAYONNE 07002	CIGHT
2240	0020	PUB SER GAS ST PAULS AND CUFFIELD JER C	RUFFLE
2240	0021	PUB SERV ELEC-HUDSON STA,JERSEY CY,07306	FRANK LIBRIZZI
2240	0022	PUB SER ELEC-KEARNY STA,KEARNY 07032	JAMES
2240	0024	FLINTKOTE & COMPANY 193 HENDERSON ST	J KUZMICH
2240	0026	MILITARY OCEAN TERMINAL, BAYONNE NJ07002	R E ECKERT
2240	0029	HOBOKEN TERMINAL RIVER ST HOBOKEN	
2240	0031	GLOBRGH HSG, BAYONNE	MANAGER
2240	0043	H B REED CORP 313/341 CENTRAL AV KEARNY	
2240	0046	TRUMBULL ASPHALT, KEARNY 07032	FRISCHKORN
2240	0047	BEST FOODS DIV. CPC	PLANT MANAGER
2240	0048	CROWN CORK & SEAL CO N BERGEN 7101 TONNE	HARRY E THOMAS
2240	0049	ELEC. CASTING CORP 54 PA. AV KEARNY	LANDAN
2240	0050	LIGHTOLIER DIV CORONA LGHTNG JERSEY CTY	WEINSTEIN
2240	0051	RADIAL CASTING CO E. NEWARK JOHN ST	SUPKO
2240	0052	TECH PLASTIC EXTRUDERS 160 PASAIC KEARNY	J COBURN
2240	0053	IMPORTERS SERVICES 233 SUYDAM AV J. CITY	MILLER
2240	0054	SCOPE INDUSTRS-DEXT FEED 900 CASTLE RD	W H MANNON
2240	0055	FERGUSON PROPELLER & RECOND 1132 CLINTON	BRUNNER
2240	0056	GARDEN STATE CONVERTERS BAYONNE	DALE MEAHL
2240	0057	STOKE CONTAINER CORP NORTH BERGEN	E. MATZ
2240	0058	STALEY CHEM DIV OF A E STALEY 100 3RD AV	W P HAGENBACH
2240	0059	THECBALD IND SANFORC AVE KEARNY	SCHNITZER
2240	0061	MILLMASTER ONYX CHEP DIV 190 WARREN ST	ALAN M KORMAN
2240	0062	DIAMOND ALKALI CO KEARNY	A L GREGORIC
2240	0064	DURO-TEST CORP, NORTH BERGEN	INDERWIES
2240	0065	ARVEY CORPORATION JERSEY CITY	ADAMS
2240	0066	NATIONAL OIL RECOVERY HOOK & COMMERCE ST	MAIZUS
2240	0067	EFKA PLASTIC CORP 163 AVENUE A BAYONNE	KATZ
2240	0068	INLAND STEEL CORP JERSEY CITY	PAUL V HEISE
2240	0069	WESTERN ELECTRIC CO. 100 CENTRAL, KEARNY	RAPP
2240	0070	N L INDUST BAKER PROD OIL DIV 40 AV A NO	RTH
2240	0071	ICI UNITED STATES INC E 22ND ST & J AVE	CONBERE
2240	0072	EL DORADO TERMINAL CORP FOOT OF E 22 ST	CARR

LIST OF PLANTS IN NEW JERSEY

COUNTY	PLANT-ID	NAME-AND-ADDRESS	CONTACT
2240	0073	GORDON TERMINAL SERV CO FOOT OF HCOK RD	DRESCHER
2240	0074	EXXON CO. USA EAST 22ND ST BAYONNE	ROBERTSON
2240	0075	ALPHA METALS INC 56 WATER ST JERSEY CITY	STAHL
2240	0076	MALLINCKRODT INC 223 W SIDE AV JERSEY CT	YUDCW
2240	0077	AMERADA HESSCORP LOWER HONK RC BAYONNE	R YCUNG
2240	0078	NU-METHOD OYEING&PRCC 128 44TH ST	KAMIL
2240	0079	PROLERIZEC SCHIABO NEU FT OF LINDEN AVE	ZIMMERN
2240	0080	GREENWICH MILLS INC 520 SECAUCUS RD	REIDY
2240	0081	BASF WYANDOTE 50 CENTRAL AVE KEARNY	KRAEMER
2240	0082	GENERAL FOODS CORP 1125 HUDSON ST	C JEASEN
2260	0001	JERSEY CENTRAL POWER & LIGHT GILBERT STATICN	C W BALLENGEE
2260	0002	RIEGAL PAPER CORP,MILFORD	PLANT MANAGER
2260	0003	TRAP ROCK IND STOCKTON RC LAMBERTVILLE	WILSCN
2260	0004	RIEGEL PRODUCTS CORP. RT519&MUSCONETCCNG RIVER	J.W.MEYER
2260	0007	ALLIED CHEMICAL ROCKAWAY RD READINGTON	J GIBBONS
2260	0008	A FERRANTE,PENN AVE EXT,RARITAN TOWNSHIP	J A FERRANTE
2980	0001	PUB SER ELEC LAMBERT RC TRENTCN 08608	JAMES
2980	0002	PUB SERV EL,NEWYORK AV & SYLVESTER,TRENT	RUFFLE
2980	0003	STAUFFER CHEM 4407 S BROAD ST YARCVILLE	SALA
2980	0004	HAMILTON TWP INCIN 215 MIAMI AVE TRENTON	DOLCI
2980	0005	EWING INCIN,DOVER & STOKES,TRENTON 08638	SUPT
2980	0006	CONGOLEUM IND,861 SLOANE AV,TRENTN 08619	HS ANDREWS
2980	0007	WENCZEL TILE,KLAG&ENTERPRIZE TRENTON	WENCZEL
2980	0008	CITIES SEVICE 601 CASS ST TRENTON 08611	CUHNOSKI
2980	0009	AMERICAN STD KLOCKNER AV TRENTON 08605	WHITE
2980	0010	THIOKCL CHEM,ENTERPRISE AV,TRENTON	F ASSMANN
2980	0014	NAVAL AIR PROP TEST CNT-TRENTCN NJ 08628	P CIPIETRO
2980	0017	A.E.BARRETT, 2485 E.STATE, TRENTON 08619	A. BARRETT
2980	0018	HOMASCTE CO LCWER FERRY RD EWING TWP	J BRCNSARD
2980	0019	W R GRACE & CO 15 IND DR TRENTON 08619	R DEVINE
2980	0020	NEARPARA RUBBER,1849 E STATE,HAMILTCN	ROSENTHAL
2980	0021	HYDROCARBON RES NY & PURITAN AVES TRENTN	G NCNGARI
2980	0022	NATL SPONGE CUSH CO 1936 E STATE ST TRTN	A KUZIANIK
2980	0023	METAL LITHO INT & LITHC RD TRENTON 08638	D BOWEN
2980	0024	GENERAL MOTORS 1445 PARKWAY AVE TRENTON	E A BARTLOW
2980	0025	AMERICAN BILTRITE 3 ASSUMPINK ST	PLANT MANAGER
2980	0026	MERCER CTY (ASPHALT) RT 29 HOPEWELL	M. NISKI
3060	0001	TENNECO CHEM INC 290 RIVER DR 07026	MARNELL
3060	0002	U S METALS 400 MIDDLESEX AV CARTERET	ALEXANDER
3060	0003	READING CO PT READING AV PT READING07064	BUTLER
3060	0004	TENNECO CHEM NIXON LAIN EDISON 08817	VERCAUTEREN
3060	0005	AM SMELTING 1160 STATE PERTH AMBOY 08861	CAPUTO
3060	0006	JERSEY CENT POWER WERNER STA 50 AMBOY	PLANT MANAGER
3060	0007	JERSEY CENT RIVER RD SAYERVILLE 08872	KELCEC
3060	0008	PUBLIC SERVICE ELEC,SEWAREN STN,SEWAREN	GLEICHMAN

LIST OF PLANTS IN NEW JERSEY

COUNTY	PLANT-ID	NAME-ANC-ADDRESS	CONTACT
3060	0009	STAUFFER CHEM CO MEADOW RD EDISON 08817	A W HANNA
3060	0010	EDISON ASPHLT TALMCGEN DURHM RDS EDISON	KUKISH
3060	0011	FMC CCRP 500 ROOSEVELT AV/ CARTERET 07008	COHEN M A
3060	0012	TITANIUM MAT LEAD CHEVALIER AV SAYREVILL	HUNTER
3060	0013	PUB SER ELEC 410 SILVER LK AV EDISON	RUFFLE
3060	0014	HATCO CHM KING GEO POST RD FORDS 08863	BIERTUEMPFL
3060	0015	AIR PROD & CHEM OLD NEW MARKET RD 08846	JF OLIVO
3060	0016	E I DUPONT WASHGTON RD PARLIN 08859	DIEKER
3060	0017	HERCULES INC PARLIN NJ 08859	WINN
3060	0018	DUPONT PHOTO PRODUCTS CHEESEQUAKE RD PARLIN07738	E I RUMRILL
3060	0019	CHEVRON OIL PERTH AMBOY	PLANT MANAGER
3060	0020	PHILA QUARTZ CO PADDOCK ST AVENEL 07001	STEFLICK
3060	0021	SHELL OIL 111 STATE ST SEWAREN 07077	D.H TAPPEN
3060	0023	ANLIN CO OF NJ AMBOY&MAUER,PERTH AMBOY	BYRNE
3060	0024	N-L INDTRS 1050 STATE ST PER.AMBOY 08862	STEVE LIST
3060	0025	FORD MOTOR CO U S HIGHWAY 1 EDISON NJ	J.W.WEBB
3060	0026	E R SQUIBB&SONS INC,GEORGES RD,NW BRNSWK	GRESL
3060	0027	KIMBERLY CLARK MAIN ST SPOTSWOOD	RAFALKO
3060	0028	DELCO REMY-JERSEY AV.NEW BRUNSWICK 08901	WILKINS
3060	0029	CITIES SERVICE CO STOUTS LA S BRUNSWICK	P J FLOOD
3060	0030	U S GYPSUM CO 600 NEW MARKET 07080	SETTERBERG
3060	0031	UNION CARBIDE CORP RIVER RD,BOUND BROOK	R BURNSTEIN
3060	0032	GREFCO INC BOX 155 JAMESBURG NJ 08831	GILMOUR
3060	0033	TENNECO CHEM MEADOW RD FORDS 08863	JOHN WARDZEL
3060	0035	METRO CONTNRS-KRAFTCO,AVENUE ST,CARTERET	R.S.COAKLEY
3060	0036	AGRICO CHEM LIEBIG LN CARTERET 07008	MILLS
3060	0049	MANZO CNTR CO WATER WKS RD MADISON TWP	JOE MANZO
3060	0050	PENWALT CORP 151 OLD NEW BRUNSWICK PSCTY	W.F. BOGEN
3060	0052	J.WALTER CORP. 495 MARKET ST PERTH AMBOY	
3060	0054	FEDERAL CHEM,PROSPECT PL.RD,MONROE TWP	SAM SHELBY
3060	0055	JOHNSON&JOHNSON ESOP RT 1 NO BRUNSWICK	W O'BRIEN
3060	0058	CHAMBERLIN AND BARCLAY,CRANBURY TOWNSHIP	J A STARK
3060	0059	MORTON SALT,920 STATE ST,PERTH AMBOY	PREFACH
3060	0060	SOUTH RIVER SAND,RIVER RD,E BRUNSWICK	M S WRIGHT
3060	0061	INLAND CONTAINER,SUMMERHILL RD,SPOTSWOOD	J S HENRY
3060	0062	METROPOLITAN TALC CO METUCHEN RD	FERRY
3060	0063	A W BRANDS INC 1200 MILIK ST CARTERET	O'CONNOR
3060	0064	EDISON PLASTICS CO 4301A NEW BRUNSWCK AV	CONTEY
3060	0065	C PFIZER CO; QUIGLEY SUBS BORDENTOWN AV	DEAN R THACKER
3060	0066	CUTERBRIDGE TERMINAL INC 920 STATE ST	HOOVER
3060	0067	ANCHOR ABRASIVES CORP FT OF MIDDLESEX ST	HELLER
3060	0068	RICHARDSON CO 409 JOYCE KILMER AVE	PLANT MANAGER
3060	0069	BIRD & SON INC POBOX 510 AMBOY AVE	DICKINSON
3060	0071	KORFLLE IND 36 MILEED WAY AVENEL	LONDRES
3060	0073	ECONOMIC LABS, BLAIR RD, AVENEL	CUMAS

LIST OF PLANTS IN NEW JERSEY

COUNTY	PLANT-ID	NAME-AND-ADDRESS	CONTACT
3060	0074	REICHHOLD CHEMICALS MIDDLESEX AV CARTERT	FRATELLI
3060	0075	TRIANGLE CONDUIT&CABLE JERSEY AV NEW BRN	MCPHAIL
3060	0076	NEW JERSEY STEEL&STRCTRL CORP SAYREVILLE	ZILLI
3060	0077	WITCO CHEM CORP 1000 CONVERY BLVD	H L BIKOFSKY
3060	0078	RUSSELL-STANLEY CORP WOODBRIDGE	BEY
3060	0079	TENNECO CHEM INTERMEDIATES PISCATAWAY	HENSHAW
3060	0080	TWIN BRIDGE ASPHALT CO WOODBRIDGE	DELLAPIETRO
3060	0082	PROSPECT IND CORP 600 PROSPECT AV PISCAT	SOKOLOFF
3060	0083	BEECHAM-MASSENGILL PHARMACEUT PISCATAWAY	BRUCE, JOSEPH P
3060	0085	ALCAN BLDG PRODUCTS WOODBRIDGE	
3060	0086	PHILLIPS PETROLEUM CO A LAFAYETTE	BALLARD
3060	0087	AMERICAN OIL CO ROOSEVELT AV CARTERET	GERMAIN
3060	0088	ALPHA ASSOCIATES 2 AMBOY AVE WOODBRIDGE	MYER
3060	0089	ASHLAND CHEM CO MEADOW RD FORDS	MUNCH
3060	0090	AMERICAN CAN CO 3 KILMER RD, EDISON	SALLFE
3060	0091	FEDDERS CORP. WOODBRIDGE AV, EDISON	E J HARRIS
3060	0093	AMERICAN CAN CO PIERSON AV EDISON	R D MCKIRAHAN
3060	0094	SCHUNDLER CO WHITMAN AV EDISON	SCHUNDLER
3060	0095	ELECTRO. METO.&MAGNETCS CROWS MILL RD	HUETTIG
3060	0096	REYNOLDS METAL CO 433 BLAIR RD AVENEL	R H DONALDSON
3060	0097	SO BRUNSWICK ASPHALT,FRESH PONDS, DAYTON	J FETSKO
3060	0098	STASEAL,WHITEHEAD AVE,SOUTH RIVER	HOOVER
3060	0099	NATIONAL CAN CORP 135 NATIONAL RD EDISON	RIVETNA
3060	0100	NATIONAL CAN CORP RT 287 PISCATAWAY	CASTELLANO
3060	0101	RHODIA INC 297 JERSEY AV NEW BRUNSWICK	G KICVSKY
3060	0102	G.A. TRANSPORTATN 78 LAFAYETTE ST	R.OLSAR
3060	0103	AMERICAN STANDARD 33 CIRCLE DR PISCATAWA	VERHEGAARD
3060	0104	LJ&P LAPLACE E PATROL RD RARITAN CENTER	LAPLACE
3060	0105	ROYAL PETROLEUM,CLIFF RD,SEWAREN 07077	BLOOM
3060	0106	C.P. CHEMICALS FT OF ARBOR ST SEWAREN	FELDMAN
3060	0107	GRJ INDUSTRS 900 P.READING AV, P.READING	CAPLOE
3060	0108	HEXCEL CORP 880 MAIN ST SAYERVILLE	ORTLEB
3060	0109	STABILIZED PIGMENTS SAW MILL RD EDISON	ISSERLIS
3060	0110	SO BRUNSWICK ASPHALT,FRESH PONDS, DAYTON	J FETSKO
3060	0111	INTERFACE CORP EDGEBORO RD EAST BRUNSWIC	R E DONHAM
3060	0114	STAUFFER CHEM CO STULTS RD DAYTON 08810	C DIETZE
3060	0116	BASF-WYANDOTTE CRANBURY-SO RIVER RD	K KIESLING
3060	0117	UNIVERSAL OIL CHEM DIV HWY 17 E RUTHERFORD	SCHRODER
3180	0001	INTL FLVR FRAG,800 ROSE LA UNION BEACH	TARANTA
3180	0002	OWENS ILL,RT 35 LAUREL AV,HOLMDEL 07733	CRISPEN
3180	0004	NESTLE CO,61 JERSEYVILLE AV,FREEHOLD	SUCHSLAND
3180	0013	CHARLES WOOD AREA-FT. MONMOUTH,NJ 07703	S. HERMAN
3180	0017	MIDLAND GLASS CO CLIFFWOOD AVE MATAWAN	JOE CAVANAGH
3180	0018	F. MCDOWELL, ASBURY-FRMGDALE RD HOWELL	F. MCDOWELL
3180	0019	STAVOLA CONTRACTING NEW SHREWSBURY	K. COOPER

LIST OF PLANTS IN NEW JERSEY

COUNTY	PLANT-ID	NAME-AND-ADDRESS	CONTACT
3180	0020	C H SUPTHEN INC RT14 MILLSTONE TWP	J BERNARDC
3180	0021	E SCHROTH,YELLOWBRK AND COPPER,HOWELL	B JACKSON
3180	0022	LYNCAR CORP YELLOWBROOK RD HOWELL 07727	JOHNSON SUPT
3180	0023	BROCKWAY GLASS HWY33 FREEHOLD TOWNSHIP	JOHN ANTHONY
3180	0024	THREE-M WILLOWBROOK RD FREEHOLD TOWNSHIP	H WELLS
3180	0025	PENNWALT CORP S HOLMODEL RD HOLMDEL TWP	JOE VUKAN
3180	0026	SEACOAST PROD SHORE RD PORT MONMOUTH	B HARRIS
3260	0001	DREW DIV PACIFIC VEG OIL CORP,BCONTON	CHRISTOPH
3260	0002	RCA RECORDS RT 46 AND FRANKLIN 07866	ROLFE
3260	0003	WARNER LAMBERT CO,182 TABOR RD,MORRIS PL	BACKMAN
3260	0004	THE HENNEN CO E HANOVER AVE,MORRISTOWN	MALECKI
3260	0005	PICATINNY ARSENAL DOVER N.J. 07801	C. BERKOWITZ
3260	0006	HOWMET CORP,ROY ST&ROCK,DOVER 07801	GRIBAS
3260	0007	WHIPPANY PAPER 10N JEFFERSON 07981	SHAW
3260	0008	HERCULES INC,KENVIL 07847	J.E.DELANCEY
3260	0009	TRI COUNTY ASPHALT INC ROCKAWAY TOWNSHIP	C OCONELL
3260	0016	HERCULES INC,KENVIL 07847	STIRZAKER
3260	0017	MT HOPE MATERIALS, MT HOPE RD ROCKAWAY	A A CESTERLE
3260	0018	FLANDERS ASPHALT CONC CO GOLD MINE RD	E ALLMAN MGR
3260	0019	REDI-CRETE CORP,GOLD MINE RD,MT. OLIVE	W MANFELOT
3260	0020	INTERFACE CORP 150 A MAIN ST WHARTON NJ	COOPER
3260	0021	BRAEN IND,125 HAMBURG TPK,RIVERDALE07457	G SLOAN
3260	0022	LESLIE CO,JEFFERSON RD,PARSIPPANY 07054	A W RICHART
3260	0023	NATIONAL GYPSUM,DIVISION AVE,PASSAIC TWP	J STIFF
3260	0024	PHILADELPHIA QUARTZ,MAIN ST,BUTLER	R J STEFLICK
3260	0027	ROWE INTERNATL,TROY HILLS RD. WHIPPANY S	R.W.BEASLEY
3260	0028	FLINTKOTE,HILLSIDE AVE,ROXBURY TWP 07847	RICHARD COLE
3260	0029	SANDOZ-WANDER INC RIDGEDALE AVE E HANOVE	
3260	0030	INTERCOUNTY PAVING OLD WATERLOO RD PT OL	KEN HAAS
3260	0032	KEUFFEL & ESSER CO FORD RD ROCKAWAY	P A CERRIA
3260	0033	THATCHER GLASS MFG PO BOX O WHARTON	T H MIKE
3260	0035	ADDRESSOGRAPH MULTIGRAPH MT PLEASANT AVE	G T SIEGEL
3900	0035	NAVAL AIR STATION, LAKEHURST, 08733 (NSI	FRED BOWEN
4120	0001	E I DUPONT CANNONBALL RD POMPTON LAKES	IRELAND
4120	0002	MERK CHEM 200 WAGARAW RD HAWTHORNE 07507	JECKER
4120	0003	OUTLANANE	PLANT MANAGER
4120	0004	PUB SER G&E CO 200 E 5TH PATERSON	CC RUFFLE
4120	0005	SAML BRAEN SON PATERSON AVE HALEDON	BILL MILLER
4120	0007	ALLIED TEXTILE 1 VANHAUTEN PATERSON	ROSEN
4120	0008	LAYTHAM FNDRY 899 MARKET PATERSON 07513	PETZOLD
4120	0010	ALLIED CHEM 550 BELMONT HALEDON 07508	J A GOUCK
4120	0011	WHIPPANY PAPER 1 ACKERMAN AV CLIFTON	PLANT MANAGER
4120	0012	RICHARDSON CO 100 NEW ST PATERSON 07501	ANDERSON
4120	0013	PANTASOTE, 26 JEFFERSON ST, PASSAIC	HAPOWIK
4120	0022	PILOT WOODWORKING,5TH AVE,HAWTHORNE	HERBSTMAN

LIST OF PLANTS IN NEW JERSEY

COUNTY	PLANT-ID	NAME-AND-ADDRESS	CONTACT
4120	0023	PREAKNESS ASPHALT,RIVERVIEW DR,TOTOWA	DE VISSER
4120	0024	PASSAIC ASPHALT,310 HOWE AVE,PASSAIC	R HALL
4120	0025	PASSAIC CRUSHED STONE,BLOOMINGDALE	PLATTER
4120	0026	BAY STATE MILLING,CHESTER ST,CLIFTON	E FEDERKIEWICZ
4120	0027	NORTH JERSEY FOUNDRY,LITTLE FALLS	METZGER
4120	0028	GREATER NEW YORK BOX CO, CLIFTON	EDELMAN
4120	0029	D STAMATO CO,BURNT MEADOW RD,W MILFORD	D STAMATO
4120	0030	KAYSAM CORP OF AMERICA 55 SHEPHERD TOTOW	MELZER
4120	0031	FRITZSCHE-DODGE & OLCOTT 85 3DST CLIF	F W RICHTER
4120	0032	REYNOLDS METALS CO RT 46 LITTLE FALLS	SPEARS
4120	0033	S.B.THOMAS 930 N.RIVERVIEW DR. TOTOWA	DAMAPB
4120	0034	GULF PLASTIC PROD 200 MALTESE DR TOTOWA	COIFMAN
4120	0035	REPROGRAPHIC PATERLS 55 CANONBALL RD P L	BRUNO
4120	0036	MILES LABS 193 ARLINGTON AV CLIFTON	CHAMBERLAIN
4120	0037	UNION CARBIDE 75 STYLON RD. WAYNE	W O GORDON
4120	0038	US BRONZE POWDERS INC 4TH AVE HASKELL	CAMPAGNA
4120	0039	BRASSBESTOS MFG 45 E 5TH. ST. PATERSON	SIMON
4120	0040	AMERICAN POLYMERS 50 CALIFORNIA AV	STEFANIC
4120	0042	DART IND-WHITE METAL MFG CO 220 GOFFLE	GILLIGAN
4120	0043	SHULTON INC 697 US 46 CLIFTON	LUCKE
4120	0044	STANDARD PACK. CORP 1 LISBON ST CLIFTON	JACK W SNYDER
4120	0045	SUN CHEM CORP 185 6TH AV PATERSON	KOULCUTHROS
4120	0047	JOHN VAN DER STAD 25 PARADISE W.MILFORD	C.VANDERSTAD
4120	0048	MISSBRENNER PRINTS INC 211 MT PROSPECT A	PROL
4120	0049	RIVERSIDE NOVELTY PRINTERS,INC 50 1ST AV	RUGGIERO
4120	0050	BRYANT INDUSTRIES CORP 200 E 16TH ST	CORRAO
4120	0051	DUPO-TEST CORP TUNGSTEN DV 185 SCOLES AV	EMIDY
4120	0052	CONTINENTAL CAN CO 20 CONTINNTL DR WAYNE	PARISI
4120	0053	CONGRESS TEXTILE PRINTERS 179 GOFFLE RD	LEAVY
4120	0054	ROMA PRINTING & FINISHNG 55 FIRST AV	AVAKIAN
4120	0055	PALAN DYEING & FINISHNG CO 61 KEEN PATER	WHITE
4120	0056	CONTINENTAL CAN CO 217 BROOK AV PASSAIC	S.G.COLAN
4120	0057	PERENNIAL PRINT CORP 3 E 26TH ST PATERSO	KLAIMAN
4120	0058	PALLMANN PULVERIZERS CO 820 BLOOMFIELD	FRED ENFIELD
4120	0061	NORTH AMERICAN CHEM CORP 150-158 KEEN ST	YANKAER
4120	0062	CONTINENTAL CAN CO 297 GETTY AV PATERSON	FURLER
4120	0063	COMBINATES CORP 312 OAK ST PASSAIC	CERONF
4120	0064	GIVAUDAN CORP 125 DELAWANNA AV CLIFTON	LAMPERT
4120	0065	INMONT CORP COLOR&CHEMICAL DIV HAWTHORNE	WADID HALAKA
4120	0066	LITTLE FALLS SERV 101 E MAIN ST L. FALLS	GURIN
4120	0068	WARREN BROS DIV ASHLAND OIL END PLANTEN RD	SCHUSTER
4120	0069	WITCO CHEMICAL CO 2 WOOD ST PATERSON	H.L.BIKOFSKY
4120	0071	ROYAL FINISHING CORP 452 EAST 19TH ST	FUCHS
4120	0072	LEADER DYEING & FINISHNG CO 94 MADISON A	BALDECCHI
4900	0001	ATLANTIC CTY ELEC PENNSGROVE 08069	MORGENWECK

COUNTY	PLANT-ID	NAME-AND-ADDRESS	CONTACT
4900	0002	E I DUPONT,CARNEYS PT 08069	LABARBERA
4900	0003	ANCHOR HOCKING GRIFFITH ST SALEM 08079	MEADE
4900	0004	SCHALICK MILLS,ELMER 08318	SCHALICK
4900	0005	E I DUPONT DEEPWATER 08023	W.H.ELLIOTT.JR.
4900	0006	GOODRICH CHEM RT130PORCUPINE RD PEDRCTON	SMITH
4900	0010	A CLEMENTE INC BOX 471 PENNSGROVE	
4900	0011	HECKEL R & SON S GERSHAL AVE	R GOTTARDI
4900	0012	MANNINGTON MILLS MANNINGTON MILLS RD	CAMPBELL
4900	0013	SIEGFRIED CHEM INDUS PK RD	W HILL
5020	0001	AMER CYANAMID E MAIN BRDGWTR TWP 08805	E H KNAPE
5020	0002	UNISET ASPH CO NEW PROVIDENCE WATCHUNG O	7060 WELDON
5020	0003	J MANVILLE 221 N MAIN MANVILLE 08835	A R WILLEY
5020	0004	CRTHO PHARM CORP RT 202 RARITAN 08869	MCKIERNAN
5020	0005	HOUDAILLE CONST CHIMNEY RCK RD BND BROOK	HENDRICKSON
5020	0006	GAF CORPORATION, NORTH THOMPSON AVE	
5020	0012	TRAP ROCK IND. LAURAL AVE.KINGSTON 08528	D. MYERS
5020	0013	ALLIED CHEMICAL RT 22&CHIMNEY ROCK RD	J.F. GORDON
5020	0014	DOCK WATCH QUARRY PIT,MARTINSVILLE 08836	G.A.MAHAN
5020	0015	FANWOOD CRUSHED STONE,NEW PROV.,WATCHUNG	R S WHALEY
5020	0016	HOUDAILLE CONST.MAT,RT 527,BERNARDS TWP	A STEWART
5020	0017	PRINCETON CHEM RESEARCH,RT206 MONTGOMERY	E ALPER
5020	0018	3-M,IND MINERAL PROD,RT 13,MONTGOMERY	KOENIGSBERGER
5020	0019	ANTHONY FERRANTE&SONS RT202 BERNARDSVILL	ED HARTL
5020	0020	AMERICAN SMELTING 270 FOOTHILL RD BRIDGE	K-SAVAGE
5300	0001	LIMESTONE PRODUCTS LIMECREST RD SPARTA	RUSBY
5300	0002	TRI COUNTY ASPHALT CO RTE 15 HOPATCONG	F. GRUEN
5300	0003	US MINERAL PRODUCTS FURNACE ST STANHOPE	A QUICK
5300	0004	LIMESTONE PROD CORP R.D. #1 BOX 316	MR. DUNN
5300	0005	ANDOVER IND,NEWTON ASPHALT,RT206,ANDOVER	L STAMATO
5300	0006	HAMBURG QUARRIES RTE 23 HAMBURG	FOREST RODDA
5440	0001	ALLIED CHEM SAUNPIKE RD SPRINGFIELD	CADLY
5440	0002	CITIES SERV OIL CO WOOD AV LINDEN 07036	LANG HJ
5440	0003	HUMBLE 1400 PARK AV LINDEN 07036	RK ALTREUTER
5440	0004	BELL TEL 600 MOUNTAIN AV MURRAY HIL07947	SELER
5440	0005	WOOD IND 688 S 2ND ST PLAINFIELD 07060	LINDEMANN
5440	0006	GEN MOTORS 1016 W EDGAR RD LINDEN 07036	J F PARKER
5440	0007	DU PONT LINDEN 07036	MCDOWELL
5440	0009	MERCK CHEM DIV 126E LINCOLN AVE 07065	B.W.HARTELIUS
5440	0010	NAT STARCH 1735 W FRONT ST PLAINFLD07063	BOUSQUE
5440	0011	PUB SER ELEC SO WOOD AVE LINDEN 07037	JAMES
5440	0012	REICHHOLD CHEM 726 ROCKFELLER ELIZABETH	FRANKS
5440	0013	M & T CHEMICALS INC PARKWAY 07065	A C MASSER
5440	0014	TENCO 720 W EDEAR RD LINDEN 07036	E.J O'CONNEL PE
5440	0015	WELDON ASPHALT MARSHES DOCK RD 07090	NA WELDON
5440	0016	GARWOOD ASPHALT NORTH AVE GARWOOD	N A WELDON

LIST OF PLANTS IN NEW JERSEY

COUNTY	PLANT-ID	NAME-AND-ADDRESS	CONTACT
5440	0017	CIBA PHARM 556 MORRIS AV SUMMIT 07901	R H BURGER
5440	0018	MONSANTO CO KENILWORTH NEW JERSEY 07033	MOUNT
5440	0019	AMER CAN 600 N UNION AV HILLSIDE 07205	E KREBS
5440	0020	BRISTOL MYERS 225 LONG AV HILLSIDE 07207	D CARDIFF
5440	0021	ALLIED CHEM 100 NORTH AV EAST 07201	JA GOUCK
5440	0022	SINGER CO 321 FIRST ST ELIZABETH 07207	R MILLER
5440	0023	PHELPS DOD BAYWAY & SO FRONT ELIZABETH	H NELSON
5440	0033	MOBIL OIL,S WOOD AVE,LINDEN	H F FORSHAY
5440	0034	U.S. GYPSUM 1255 RARITAN RD. CLARK	W.JONES
5440	0035	VOLCO BRASS AND COPPER,KENILWORTH	STRIKER
5440	0036	AMERICAN PLYWOOD,OOWD AVE,ELIZABETH	KURLAN
5440	0037	TEXACO,INC. MARSHES DOCK RD. LINDEN	D A BALLOU
5440	0038	AM CYANAMID TREMLEY PT RD LINDEN	WHARTON
5440	0039	CHEMICAL CONTROL CORP 25 S FRONT ST ELIZ	ROBERT DAY
5440	0040	BP OIL TREMLY POINT ROAD LINDEN	PIGNATIELLO
5440	0041	BUCKEYE PIPE LINE LINDEN	JAN FORWATH
5440	0042	CHELSEA INDUST 161 EAST 11 AVE ROSELLE	E STANSFIELD
5440	0043	DRI-PRINT FOILS 329 NEW BRUNSWICK RAHWAY	PARKER
5440	0044	GAF CORP DUPONT RD LINDEN	N.B.BARTLESON
5440	0046	GRIFFITH LABS INC 855 RAHWAY AV UNION	MCCALLEN
5440	0047	HOUDAILLE CONST MATLS ORCHARD ST SUMMIT	H N ENGLISHMAN
5440	0048	POLYPLASTEX UNITED 870 SPRINGFIELD RD UN	BILANIN
5440	0049	SCHERING CORP 1011 MORRIS AV UNION	R M BIELEN
5440	0050	WAVERLY PROPERTIES 963 NEWARK AV ELIZABT	STEFLICK
5440	0051	CITIES SERVICE OIL TREMLY POINT RD	PLANT MANAGER
5440	0052	DOLLY MADISON KITCHENS SPRINGFIELD	SCHARF
5440	0053	PUROLATOR,NEW BRUNSWICK AVE,RAHWAY 07065	MASARIK
5440	0054	SEALCL.INC 16 QUINE ST CRANFORD	P.SILANCE
5440	0055	ALCAN METAL POWDERS 901 LEHIGH AVE	PETER ORTLEB
5440	0056	COOPER ALLOY CORP BLOY ST, HILLSIDE	COOPER
5440	0057	RHEEM MFG CO 1701 W. EDGAR RD LINDEN	BABINSKI
5440	0058	KOPPERS CO 27 COMMERCE DR CRANFORD	COSSA
5440	0059	DOCK RESINS CORP 1512 W ELIZABETH AV	
5440	0060	REHEIS CHEM CC 235 SNYDER AV BERKELEY HT	FERENTCHAK
5440	0061	MILLMASTER CHEM CO 11 SUMMIT AV BERKELEY	M ZELKIND
5440	0062	HOUSING AUTHORITY CITY OF ELIZABETH	FARLEY
5440	0063	ELIZABETH BD OF ED NEW GEO WASHINGTON	CIOFFI
5440	0064	EXXON CHEMICAL CO 1400 PARK AV LINDEN	ROBERTSON
5440	0065	UNIV NEWARK CONTAINER 1200 WEST BLAAKE	COHEN
5660	0001	M M MARS HACKETTSTOWN 07840	CONOVER
5660	0002	BAKER CHEM 600 N BROAD PHILLIPSBUR608865	M K GOSS
5660	0003	CELANESE PLASTICS, JAMES ST,BELVIDERE	BOWMAN
5660	0004	CANRON 183 SITGREAVES PHILLIPSBURG 08865	THEIMER
5660	0005	AMERICAN CAN CO RT31 WASH NJ 07882	J GIRGAN
5660	0006	KRAMER OIL CORP RT 46	HOFFMAN

LIST OF PLANTS IN NEW JERSEY

COUNTY	PLANT-ID	NAME-ARC-ADDRESS	CONTACT
5660	0007	ASBURY GRAPHITE MILLS,ASBURY 08802	R VANDERBILT
5660	0008	FLOCK IND 259 CENTER ST PHILLIPSBURG NJ	H ORLICK
5660	0009	INGERSOLL RAND MEMORIAL PKWY PHILLIPSBUR	STAN KUCATIS
5660	0010	HOFFMAN LAROCHE SAREPTA RD WHITE TWP	V J MCKENNA
5660	0011	PEARSALL CHEM,RIVER RD,HARMONY TWP	LEE SMITH
5660	0012	WARREN PAVING RT24 STEWARTSVILLE NJ	FW WEISS
5660	0013	WARREN LIMESTONE QUARRY RD OXFORD TWP NJ	J PERRUCCI
5660	0014	RIEGEL PRODUCTS CORP. RIEGELSVILLE HILL	J.W.MEYER
0080	0002	ATLANTIC CTY ELEC ATL CTY 08404	MORGENWECK
0080	0003	AE STONE ADAMS&DOUGHTYPLEASANTVILLE08232	SH HEWETT
0080	0004	LENOX CHINA INC TILTON RD POMONA	H BACHRACH
0080	0006	ATL CITY DPW EDWIN & CAROL.AVES ATL CTY	W.MACARTHUR
0080	0007	EASTERN TRANSIT MIX INC PLEASANTVILLE	CARPENTER
0080	0008	ATLANTIC CTY HOSP 1925 PACIFIC AVE ATL C	GASKILL
0080	0010	KESSLER MEM HOSP WH HORSE PK & CNTRL AVE	W. C. CHILDS
0080	0011	SCOTT PAPER CO WEYMOUTH RD BUENA BORO	R. J. CROPSEY
0080	0012	KERR CONCRETE PIPE CO BOX 312	S BENNETT
0080	0014	WHEATON IND WEYMOUTH RD MAYS LANDING	R HOWELL
0080	0015	ARAWAK PAVING CO WEYMOUTH RD HAMILTONTWP	
0080	0016	ATLANTIC CITY MED.CTR.LEEDS RD POMONA	N.CORSON
0780	0001	ATL CITY ELEC MARMORA 08223	MORGENWECK
0780	0002	HARBISON WALKER SUNSET BLVD (NW MAGNST)	R. P. UMFRID
0780	0010	BURDETT TOMLIN HOSP RT9 & STONE HARBOR	JEFFERYS
0780	0011	VERSAGGI BROS CONST CO 113 W 20 ST	R VERSAGGI
0780	0012	TIMME FABRICS INC CAPE MAY CO IND PARK	
0780	0013	ATLANTIC CITY ELEC.,MIDDLE TWP. -RIC GND	MORGENWECK
0780	0014	GERALD A BARRETT WOODBINE CAPE MAY	BRUCE BARBER
1050	0001	OWENS-ILLINOIS INC. CRYSTAL AVE. VINELAND	L. R. KNIPPLE
1050	0002	KERR GLASS,SO 2ND ST,MILLVILLE 08332	CONNOYER
1050	0004	OWENS-ILL N LAUREL ST BRIDGETON 08302	J H FITHIAN
1050	0005	WHEATON INDUSTS WHEATON AVE MILLVILLE 08	332 DAVIS
1050	0006	CLEVEPAK CORP BOX H VINELAND 08360	MAUGER
1050	0007	EASTERN BITUMINOUS PROD INC MILLVILLE	WEATHERBY
1050	0008	AGWAY PETROLEUM INC 851 NPEARL BRIDGTON	KNOLL
1050	0009	BRIDGTON DYEG FIN 330 ECOMMERCE BRIDGTON	KCSAAN
1050	0013	ITT CORP PA GL CORP RAILROAD AVE NEWPORT	H ANDREWS
1050	0014	LEONE IND 443 S FAST AVE. BRIDGETON	J LECNE
1050	0015	NEWCOMB HOSP 66 S STATE ST VINELAND	H MAURER
1050	0016	PEERLESS PEARL CO 200 FOREST GROVE RD	M PLAID
1050	0017	SOUTH STATE INC REEVES RD VINELAND	R LEARD
1050	0018	TYLER CORP PO BOX 537	Z HAYES
1050	0019	VINELAND CHEM CORP W WHEAT RD VINELAND	H PORTER
1050	0020	VINELAND MUNICIPAL ELEC UTIL WEST &PLUMM	PURI
1050	0021	VINELAND STATE HOSP 1676 E LANDIS AVE	L H MUENCH
1050	0023	WARNER CO NJ SILICA SAND CO SUB PO BX636	G PAPPAS

LIST OF PLANTS IN NEW JERSEY

COUNTY	PLANT-ID	NAME-AND-ADDRESS	CONTACT
1050	0024	OWENS-ILLINOIS INC MLVL SSP MAURICE RVR	G FITZGERALD
1050	0025	PETTINOS,G.F.,INC. RTE 548 PORT ELIZABTH	TW PETTINOS
1050	0026	MORIE,J.S.,LINCOLN AVE.,MILVILLE	J.MORIE
1050	0027	MORIE,N.J.,NOBLE ST.,COMMERCIAL TWP	J.MORIE
1050	0028	WHITEHEAD BROS-DORCHESTER MAURICE R. TWP	WHITEHEAD
1050	0029	WHITEHEAD BROS. DIVIDING CRK DOWNE TWP	WM WHITEHEAD
1050	0030	ATLANTIC CITY ELEC. CO. UPPER DEARFIELD	F.MORGENWECK
1050	0031	CONTINENTAL CAN 502 W ELMER RD VINELAND	DECCRATO GR
1050	0032	UNISIL CORP ,RT 55 MAURICE RIVER TWP	SIRIANNI NF
1050	0033	THE ESPOMA CO. CUMBERLAND TWPGESPOMA RD	DEAN SANDERS
1050	0034	STAR FISHGBONE FERT. PENNSBANK BRIDGETON	L.LUBOW
1050	0035	E. P. HENRY CO 4200S.WEST BLVD. VINELAND	M. KOPIE
1050	0036	WHITEHEAD BROS. RT 47 PORT ELIZABETH	ERICKSEN
1050	0037	LAB GLASS INC. 1172 NW BLVD. VINELAND	D.V.PEDRONI
1050	0038	ANDREWS GLASS CO 3740 NW BLVD VINELAND	R H COMATZ
1050	0039	NJ SILICA SAND CO,MILLVILLE (PLANT #8)	
1050	0040	BELLCO GLASS CO 340 EDRUDO VINSLAND	R. J. AARON
1050	0041	JOSEPH TOYE CO., 315 BANK ST, BRIDGETON	J. F. TOYE
1050	0042	VINELAND TRANST MIX CONCRT 1305 N MAIN	
1050	0043	KENNEDY CONCRETE 1969 S.E.ST VINELAND	R.FITZPATRIC
1050	0044	CAPITAL CONCRTE & SUPPLY 300 ESPLONADE	CARPENTIER V
1050	0045	HUNT-WESSON FOODS EAGLE&GROVE ST BRDGTON	GRANGER
1050	0047	PROGRESSO FOODS CORP 500 ELMER VINELAND	NOVAK R.
3900	0001	TOMS RIVER CHEM TOMS RIVER 08753	BOBSEIN
3900	0002	READE MFG RIDGEWAY BLVD LAKEHURST NJ	CLAUDE REVES
3900	0003	N J PULVERIZING OFF HICKORY LN BAYVILLE	A TANZER
3900	0004	ACME CABINET MFG 909 HWY37W TOMS RIVER	V PLALUMBO
3900	0005	HARDWOOD MILLS RTE 527 JACKSON TWP	
3900	0006	EXCEL WOOD PROD PROSPECT & MASS ST LAKEW	MROSENBLUM
3900	0007	ATLANTIC CITY ELECTRIC STAFFORD TWP.	MORGENWECK
3900	0008	AMERICAN SMELTING MANCHESTER TWP.	M LEARY
3900	0009	BRICKWALL CORP LACEY TWP LACEY RD	JOHN HESSE
3900	0010	WALTER EARLE JACKSON	
3900	0011	JACKSON ASPHALT JACKSON	GRAFF
3900	0012	MANZO BRICK TWP	P.MANZO
3900	0013	T. NICOL MANCHESTER TWN	MAHON
3900	0014	OCEAN ASPHALT BERKLEY TWN	
3900	0015	SCM CORP RT571 JACKSON TWP	SCHWORM

APPENDIX H

FEDERAL FACILITIES
NEDS AP-7 CARDS

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3122400430026017S                APER SOURCE CODE NOS. II44C-A1, A2, & A3                    APT
3122400430026017S10300402AL RUNS 114 DA/YR, A2: 161, & A3: 184. ALL RUN 24 HRAPT
3122400430026  75                IF STKS COMB:DIA-EQUIV AREA:TEMP,HGT,WGTD:OTHRS SUM.APT
3122400430026027S                APER SOURCE CODE NO. II44C-A4.                              APT
3122400430026037S                APER SOURCE CODE NO. II-GV-B. ONE STACK-BURNS #4 OILAPT
3122400430026037S10300503ONLY 1 BOILER RUNS FROM APR TO SEPT, EACH DOWN 3 MO.APT
3122400430026047S                APER SOURCE CODE NO. II-NI-C. ONE BOILER-BURNS #2           APT
3122400430026047S10300403OPERATES ONLY WHEN U.S. NAVAL VESSEL IS BERTHED.                   APT
3122400430026057S                APER SOURCE CODE NOS. IV-A, IV-B, & IV-C.                   APT
3122400430026057S40300103ANN. THRUPUTS:IV-A: 184602 GAL, IVB:199572,IVC:199033APT
3122400430026067S                APER SOURCE CODE NO. IV-D.                                  APT
3122400430026077S                APER SOURCE CODE NO. IV-F                                   APT
3132600430005017S                APER-506A-CAPABLE OF BURNING COAL IN EMERGENCY              APT
3132600430005  75                IF STKS COMB:DIA-EQUIV AREA:TEMP,HT,WGTD:OTHR SUM.          APT
3132600430005027S                APER-506B-CAPABLE OF BURNING COAL IN EMERGENCY              APT
3132600430005037S                APER-3013D1 BOILER INSTALLED 1970                           APT
3132600430005047S                APER-99E3-BOILER INSTALLED 1942-WOOD-CLOSED                 APT
3132600430005057S                APER-IIIC-OPEN BURNING                                      APT
3132600430005067S                APER-506C-                                                  APT
3132600430005067S10300402TEMP,FLO RATE EST,TYPICAL BLR                                       APT
3132600430005077S                APER-99E1-BOILER INSTALLED 1942-TO BE CONV NO.2 OIL         APT
3132600430005077S10300208                                                                    APT
3132600430005097S                APER-99E2-BOILER INSTALLED 1942-TO BE CONV NO2 OIL          APT
3132600430C050875103002085TK DATA BASED ON TYPICAL BIT COAL BLR                              APT
3132600430C050975                APER-3013D2- BOILER INSTALLED-1941- NOT USED                APT
3132600430005097S10300402STK DATA,TYPICAL BLR,                                               APT
3132600430C051075                APER-3013D3-BOILER INSTALLED 1941-NOT USED                  APT
3132600430C051075103004025TK DATA,TYPICAL BLR,                                               APT
3132600430CC51175                APER-3405F1-BOILER INSTALLED 1944                           APT
3132600430005117S10300502TEMP,FLO RATE,TYPICAL BLR,                                          APT
3132600430005127S                APER-3405F2-BOILER INSTALLED-1944-TO BE CONV NO2 OILAPT
3132600430005127S10300208STK DATA EST.,TYPICAL BLR.                                          APT
3132600430C051375                APER-3405F3-BOILER INSTALLED 1944-TO BE CONV NO2 OILAPT
3132600430005137S10300208STK DATA,TYPICAL BLR.                                               APT
3132600430005147S                APER IV-ABCD                                                APT
3132600430005157S                APER IV-EFG                                                 APT
3132600430C051675                APER IV-13U OTHER PAINT USAGE IN PLT IS 4TONS PER YRAPT
3132600430005177S                APER-IV-1362T-INSTALLED 1969                                APT
3106600450014017S                APER SOURCE CODE NOS. II-1220-1 THROUGH 4.                  APT
3106600450014017S                IF STKS COMB:DIA-EQUIV AREA:TEMP,HT,WGTD:OTHERS SUM.APT
3106600450014027S                APER SOURCE CODE NO. II-1076-A1 & A2.                       APT
3106600450014037S                APER SOURCE CODE NOS. NOT INCLUDED ON POINTS 01 & 02APT
3106600450014037S10300503FLO RATE,TEMP,EST.                                                  APT
3106600450014047S                APER SOURCE CODE NOS. IV-A & IV-B.                          APT
3106600450C140475403001014200000 GALCNS-TOTAL VOLUME. IV-B IS RESERVE                        APT
3106600450014057S                APER SOURCE CODE NOS IV-C & IV-D. PX & MOTOR POOL           APT
3106600450014057S40399999S 10NGAL TANKS, 1 6NGAL, 5 5NGAL, & 1 2NGAL                         APT
3106600450014067S                APER SOURCE CODE NO. IV-E,PLUME HT EST.                     APT
3106600450014067S40299999S20 GAL OF PAINT PER YR., 2 GAL/HR MAXIMUM                          APT
3139001500035017S                APER SOURCE CODE NOS. II-A1, A2, A3, & A4 (BLDG. 15)APT
3139001500035017S102004023 43.5 MMBTV BOILERS & 1 55 MMBTU. BURN #6 OIL                      APT
3139001500C35  75                IF STKS COMB:DIA-EQUIV AREA:TEMP,HT,WGTD:OTHRS SUM.         APT
3139001500035027S                APER SOURCE CODE NO.'S IIB1 THRU 85 IN BLDG. 362            APT
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3139001500035027510200402455MMBTU BOILERS( 1 45. BI RUNS 24-7-48,REST 8-5-25AP7
3139001500035037 5          APER NOS. IIC THRU G, III THRU O, & IIU & V.      AP7
3139001500035037510200503TEMP,FLO RATE EST.,TYPICAL DIST BLR.                 AP7
3139001500035047 5          APER NOS. II-H, II-P, & II-Q THRU II-T.           AP7
3139001500C350475102004037IIQ THRU IIT SHARE STACK & RUN 24 HR 7 DA 44 WK/YR. AP7
3106600450C800175           APER NOS. II-5881A TO D, 5426E TO H, & 52521 TO K. AP7
3106600450080  75           IF STKS COMB;DIA-EQUIV AREA;TEMP,HT,WGTD;OTHRS SUM. AP7
3106600450080027 5          APER SOURCE CODE NO. 5324L & 5324M                 AP7
3106600450C800375           APER NOS. 33790, 3409P, 0971Q, & IIR               AP7
3106600450CC800375103005032 BOILERS OF 5 MMBTU, 2 OF 2.5, 3 OF 3.5, & 16 OF 1 AP7
3106600450080047 5          APER SOURCE CODE NOS. IIS, IIT, IIU, IIV, & IIW    AP7
3106600450080047510300503NO. 2 OIL BURNED                                     AP7
3106600450080057 5          APER SOURCE CODE NOS. IVB1 & IVB2,PLUME HT EST.    AP7
3106600450CC800575402001011O MGAL OF PAINT PER YR. 8 MGAL OIL, 2 MGAL LATEX.  AP7
3106600450080067 5          APER SOURCE CODE NO. IV0456,0340C,0690C,5355C,5374C AP7
3106600450080067540399999PLUME HT. EST.,HOURLY MAX. DESIGN RATE EST.          AP7
3106600450080077 5          APER SOURCE CODE NOS 5426D & 3167D                 AP7
3106600450CC800775403001011PLUME HT EST.,HOURLY MAX DESIGN RATE EST.          AP7
3131800430013017 5          APER SOURCE CODE NO. II-2700. 4 SEPARATE POINTS.   AP7
3131800430013017510300402TWO BOILERS RUNNING, TWO STANDBY.TEMP,FLO RATE EST. AP7
3131800430C13027 5          APER-3021,27,35,650. 3216,2000,2337,2543,3010,3015 AP7
3131800430013027510300503TEMP.FLO RATE EST                                    AP7
3131800430013037510300503TEMP,FLO RATE EST,TYPICAL BLR,                       AP7
3106600450012017 4          APER SOURCE CODE NO.'S 2101-1 THROUGH 2101-6       AP7
3106600450012  74           IF STKS COMB;DIA-EQUIV AREA;TEMP,HT,WGTD;OTHRS SUM. AP7
3106600450012027 5          APER SOURCE CODE NO. II-1908, #4 OIL BURNED.       AP7
3106600450012027510200502STK DATA EST;TYPICAL DIST. BLR.                      AP7
3106600450012037 4          APER NO.'S II-2401, 3402, 1807, 1802, 1623, 2401   AP7
3106600450012037410200503BOTH SOURCE CODES 2401 INCLUDED,STK DATA EST.        AP7
3106600450C12047 4          APER-2815,2834,1801,2743,1733,2829,2735,3442,3459  AP7
3106600450012047410200503THESE BOILERS BURN NO. 2 OIL, STK DATA EST.          AP7
3106600450012057 4          POINTS LABLED "VARIOUS" ARE INCLUDED.              AP7
3106600450012057410200503#2 OIL BURNED--DESIGN CAPACITY EST. STK DATA EST.     AP7
3106600450C12067 4          APER SOURCE CODES IV 40300103 2 TANKS COMBINED     AP7
3129800450014017 5          APER-0A-B-C-EACH BLR 48MMBTU-IDENTICAL-INSTALLD 1952AP7
3129800450014017510300402EMISSION EST FROM APER FORM-APPROX AP-42              AP7
3129800450C14  75           STKS COMB;DIA-EQUIV AREA;TEMP,HT,WGTD;OTHRS SUM.   AP7
3107801500C640175           PAIL-PUB WKS DIV-STP22-USCG TRACEN-CAPE MAY NJ-08204AP7
3107801500064017510300402APER II-A-3BLRS 21.5 MMBTU-HR EA-FIGURES APE TOTALS  AP7
3107801500C64  75           IF STKS COMB;DIA-EQUIV AREA;TEMP,HT,WGTD;OTHRS SUM. AP7
3107801500C640275           APER-II-A2 -BLR INSTALLED 1972                     AP7
3131800430013  75           IF STKS COMB;DIA-EQUIV AREA;TEMP,HGT,WGTD;OTHRS SUM.AP7
3131800430013037 5          APER SOURCE CODE NOS. II-R & II-S.                 AP7
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